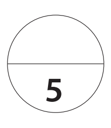
15 Marks

Model (1)

1 Choose the correct answer:



a $2 : 5 =$ .... % (20 , 40 , 60 , 80)

b 30% of a kilometer = ... m (600 , 800 , 500 , 300)

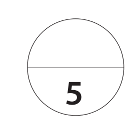
c Ali drinks 14 cups of juice every week. Then he drinks .... cups of juice every day.

(1 , 2 , 7 , 14)

d 52 pounds = ... piasters. (520 , 5.2 , 0.52 , 5,200)

e The point .... lies on X-axis. ((2,-2) , (3,-5) , (0,5) , (5,0))

2 Complete the following:



a $\frac{3}{4} =$ .... %

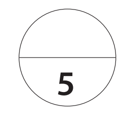
b Ali studies 24 hours in 6 days, then he studies .... hours per day.

c $1 - \frac{3}{5} =$ .... %

d Point A (-3, 5) lies in the .... quadrant.

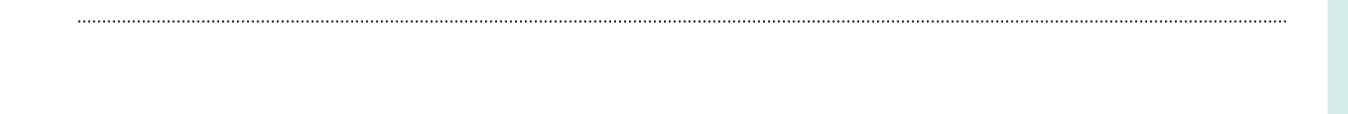
e 10% of 780 = ...

3 Answer the following:



a If $\frac{4}{x+5} = 80\%$, then find the value of X.

....



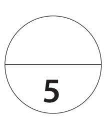
b A speed of a car is 1000 m per minute, convert its speed to km per hour.

....

15 Marks

Model (2)

1 Choose the correct answer:



a 26% = ... (26 , 0.26 , 2.6 , 2,600)

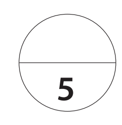
b $\frac{1}{5}$ = ... % (10 , 20 , 25 , 40)

c 160 km per 4 hours = ... km per hour (4 , 40 , 80 , 8)

d Which of the following points lies on the Y-axis? ((3,5) , (5,3) , (3,0) , (0,3))

e 10% of 65 kg = ... km (650 , 6,500 , 0.65 , 6.5)

2 Complete the following:



a $1 - \frac{1}{2}$ = ...%

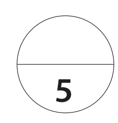
b 540 minutes = ... hours

c The coordinate of the origin point is (..............., ...).

d $\frac{1}{4}$ + 65% = ...%

e $\frac{1}{4}$ day × $\frac{\cdots\cdots}{\cdots\cdots}$ = 6 hours

3 Answer the following:



a Put the suitable sign (< , > , =):

1 $\frac{1}{4}$ 4%

2 3.5 cm .... 35 mm

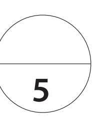
b Hany bought a fridge for 16,000 L.E. If he paid 40% of its price, how much money did he pay?

....

15 Marks

Model (3)

1 Choose the correct answer:



a Which point lies in the third quadrant? ((0,-6) , (-3,-5) , (-3,0) , (3,-5))

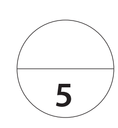
b $\frac{\dots\dots\dots}{60 \text{ minutes}}$ is a conversion factor. (1 minute , 1 hour , 1 second , 1 day)

c $1 - \frac{1}{5} =$ .... % (60 , 40 , 80 , 75)

d 30% of 50 kg = ... kg (10 , 20 , 15 , 25)

e 0.57 L .... 57 ml (< , > , = , otherwise)

2 Complete the following:



a If 12% of students are absent, then ....% of them are present.

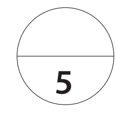
b $5\% + \frac{3}{4} =$ ....%

c A printer prints 120 papers in 2 minutes, then it prints .... papers per minute.

d The Y-coordinate of any point that lies on the X-axis is ....

e 60 km per hour = ... km per minute

3 Answer the following:



a Find the value of X in $\frac{X}{20} = 35\%$.

....

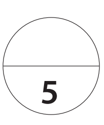
b If the speed of a fox is 72 km per hour, find its speed in meter per second.

....

15 Marks

Model (4)

1 Choose the correct answer:



a Which of the following is a conversion factor?

($\frac{6\text{ km}}{1\text{ hour}}$, $\frac{1\text{ km}}{1{,}000\text{ mm}}$, $\frac{7\text{ days}}{1\text{ week}}$, $\frac{60\text{ seconds}}{1\text{ hour}}$)

b If 8 cups of flour make 4 pizzas, then there are .... cups for each pizza.

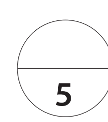
(2 , $\frac{1}{2}$, 32 , 4)

c The point (2,2) lies in .... quadrant. (first , second , third , fourth)

d 120 km per hour = ... km per minute (720 , 2 , 20 , 40)

e $\frac{3}{2}$ = ... % (50 , 100 , 150 , 75)

2 Complete the following:



a 1 – (12% + 18%) = ...%

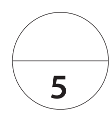
b 80% = $\frac{4}{5}$ (in simplest form)

c Point A (3,-5) lies in the .... quadrant.

d 7 hours = ... minutes

e 15 minutes × $\frac{1\text{ hour}}{60\text{ minutes}}$ = $\frac{1}{4}$ hour

3 Answer the following:



a Convert each of the following into a percentage:

1 0.02

2 $\frac{21}{25}$

....

....

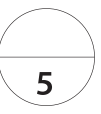
b If the speed of a cat is 30 km per hour, find its speed in meter per minute.

....

15 Marks

Model (5)

1 Choose the correct answer:



a If 20% of a number = 40, then this number = ... (100 , 150 , 200 , 250)

b Which of the following is a conversion factor?

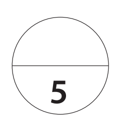
($\frac{1 \text{ hour}}{24 \text{ days}}$, $\frac{1 \text{ day}}{60 \text{ seconds}}$, $\frac{60 \text{ seconds}}{1 \text{ minute}}$, $\frac{1 \text{ hour}}{1 \text{ day}}$)

c 3,600 seconds = ... (1 day , 1 hour , 1 minute , 6 minutes)

d The point (1,1) lies in .... quadrant. (1^{st} , 2^{nd} , 3^{rd} , 4^{th})

e 30% of 450 kg = ... kg (90 , 45 , 135 , 180)

2 Complete the following:



a Maha studies 30 hours in 5 days, then she studies 6 hours per day.

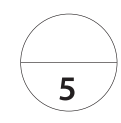
b $1\frac{3}{4}$ = ...%

c 60 km per hour = ... meters per minute

d The X-coordinate of any point that lies on the Y-axis is ....

e $\frac{4}{5}$ – 45% = ...%

3 Answer the following:



a Put the suitable sign (< , > , =):

1. 0.5 liter .... 50 milliliters
2. 70 hours .... 3 days

b A mobile phone that costs 6,300 L.E. If there is a 10% discount, find the price of the mobile after the discount.

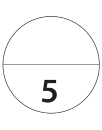
....

....

15 Marks

Model (1)

1 Choose the correct answer:



a 2 : 5 = ... % (20 , 40 , 60 , 80)

b 30% of a kilometer = ... m (600 , 800 , 500 , 300)

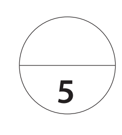
c Ali drinks 14 cups of juice every week. Then he drinks .... cups of juice every day.

(1 , 2 , 7 , 14)

d 52 pounds = ... piasters. (520 , 5.2 , 0.52 , 5,200)

e The point .... lies on X-axis. ((2,-2) , (3,-5) , (0,5) , (5,0))

2 Complete the following:



a $\frac{3}{4} = 75\ \%$

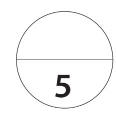
b Ali studies 24 hours in 6 days, then he studies 4 hours per day.

c $1 - \frac{3}{5} = 40\ \%$

d Point A (-3, 5) lies in the second quadrant.

e 10% of 780 = 78

3 Answer the following:



a If $\frac{4}{X + 5} = 80\%$, then find the value of X.

$\frac{80}{100} = \frac{4}{5}$

$\frac{4}{x + 3} = \frac{4}{5}$, then X + 3 = 5 , X = 2

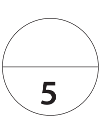
b A speed of a car is 1000 m per minute, convert its speed to km per hour.

The speed = $\frac{1,000 \text{ m}}{1 \text{ minute}} \times \frac{1 \text{ km}}{1,000 \text{ m}} \times \frac{60 \text{ minutes}}{1 \text{ hour}}$ = 60 km per hour

15 Marks

Model (2)

1 Choose the correct answer:



a $26\% = \dots\dots$ (26 , 0.26 , 2.6 , 2,600)

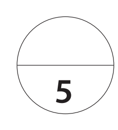
b $\frac{1}{5} = \dots\dots \%$ (10 , 20 , 25 , 40)

c 160 km per 4 hours = ... km per hour (4 , 40 , 80 , 8)

d Which of the following points lies on the Y-axis? ((3,5) , (5,3) , (3,0) , (0,3))

e 10% of 65 kg = ... km (650 , 6,500 , 0.65 , 6.5)

2 Complete the following:



a $1 - \frac{1}{2} = 50\%$

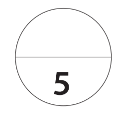
b 540 minutes = 9 hours

c The coordinate of the origin point is (0,0).

d $\frac{1}{4} + 65\% = 90\%$

e $\frac{1}{4}$ day $\times \frac{24 \text{ hours}}{1 \text{ day}} = 6$ hours

3 Answer the following:



a Put the suitable sign (< , > , =):

1 $\frac{1}{4} > 4\%$

2 3.5 cm = 35 mm

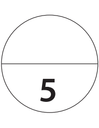
b Hany bought a fridge for 16,000 L.E. If he paid 40% of its price, how much money did he pay?

The money paid = $40\% \times 16,000 = \frac{40}{100} \times 16,000 = 6,400$ L.E

15 Marks

Model (3)

1 Choose the correct answer:


5

a Which point lies in the third quadrant? ((0,-6) , (-3,-5) , (-3,0) , (3,-5))

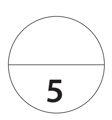
b $\frac{\text{..........}}{60 \text{ minutes}}$ is a conversion factor. (1 minute , 1 hour , 1 second , 1 day)

c $1 - \frac{1}{5} =$ .... % (60 , 40 , 80 , 75)

d 30% of 50 kg = ... kg (10 , 20 , 15 , 25)

e 0.57 L .... 57 ml (< , > , = , otherwise)

2 Complete the following:


5

a If 12% of students are absent, then 88% of them are present.

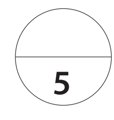
b $5\% + \frac{3}{4} = 80\ \%$

c A printer prints 120 papers in 2 minutes, then it prints 60 papers per minute.

d The Y-coordinate of any point that lies on the X-axis is 0.

e 60 km per hour = 1 km per minute

3 Answer the following:


5

a Find the value of X in $\frac{x}{20} = 35\%$.

$\frac{x}{20} = \frac{35}{100}$, so $x = \frac{35 \times 20}{100} = 7$

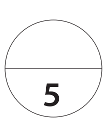
b If the speed of a fox is 72 km per hour, find its speed in meter per second.

The speed $= \frac{72 \text{ km}}{1 \text{ hour}} \times \frac{1{,}000 \text{ m}}{1 \text{ km}} \times \frac{1 \text{ hour}}{3{,}600 \text{ second}} = 2$ meters per second

15 Marks

Model (4)

1 Choose the correct answer:


5

a Which of the following is a conversion factor?

($\frac{6\text{ km}}{1\text{ hour}}$, $\frac{1\text{ km}}{1{,}000\text{ mm}}$, $\frac{7\text{ days}}{1\text{ week}}$, $\frac{60\text{ seconds}}{1\text{ hour}}$)

b If 8 cups of flour make 4 pizzas, then there are .... cups for each pizza.

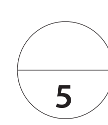
(2 , $\frac{1}{2}$, 32 , 4)

c The point (2,2) lies in .... quadrant. (first , second , third , fourth)

d 120 km per hour = ... km per minute (720 , 2 , 20 , 40)

e $\frac{3}{2}$ = ... % (50 , 100 , 150 , 75)

2 Complete the following:


5

a 1 – (12% + 18%) = 70%

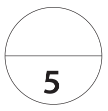
b 80% = $\frac{4}{5}$ (in simplest form)

c Point A (3,-5) lies in the Fourth quadrant.

d 7 hours = 420 minutes

e 15 minutes × $\frac{1\text{ hour}}{60\text{ minutes}}$ = $\frac{1}{4}$ hour

3 Answer the following:


5

a Convert each of the following into a percentage:

1 0.02

2%

2 $\frac{21}{25}$

$\frac{21}{25}$ × 100% = 84%

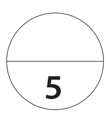
b If the speed of a cat is 30 km per hour, find its speed in meter per minute.

The speed = $\frac{30\text{ km}}{1\text{ hour}} \times \frac{1{,}000\text{ m}}{1\text{ km}} \times \frac{1\text{ hour}}{60\text{ minutes}}$ = 500 meters per minute

15 Marks

Model (5)

1 Choose the correct answer:



a If 20% of a number = 40, then this number = ... (100 , 150 , 200 , 250)

b Which of the following is a conversion factor?

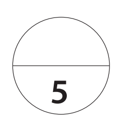
($\frac{1 \text{ hour}}{24 \text{ days}}$, $\frac{1 \text{ day}}{60 \text{ seconds}}$, $\frac{60 \text{ seconds}}{1 \text{ minute}}$, $\frac{1 \text{ hour}}{1 \text{ day}}$)

c 3,600 seconds = ... (1 day , 1 hour , 1 minute , 6 minutes)

d The point (1,1) lies in .... quadrant. (1^{st} , 2^{nd} , 3^{rd} , 4^{th})

e 30% of 450 kg = ... kg (90 , 45 , 135 , 180)

2 Complete the following:



a Maha studies 30 hours in 5 days, then she studies 6 hours per day.

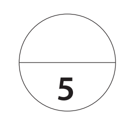
b $1\frac{3}{4}$ = 175 %

c 60 km per hour = 1,000 meters per minute

d The X-coordinate of any point that lies on the Y-axis is 0 .

e $\frac{4}{5}$ – 45% = 35%

3 Answer the following:



a Put the suitable sign (< , > , =):

1 0.5 liter > 50 milliliters

2 70 hours < 3 days

b A mobile phone that costs 6,300 L.E. If there is a 10% discount, find the price of the mobile after the discount.

The value of a discount = 10% × 6300 = 630 L.E

The price after a discount = 6300 – 630 = 5,670 L.E





March Questions Bank



Question 01 Choose the correct answer

1. Which of the following is not conversion factor?

   a) $\frac{1\text{ hr}}{1\text{ min}}$ b) $\frac{1000\text{ mL}}{1\text{L}}$ c) $\frac{1000\text{ m}}{1\text{ km}}$ d) $\frac{1\text{ HR}}{3600\ SEC}$

2. 40% + 0.32 =...... %

   a) 7.2 b) 0.72 c) 72 d) 720

3. $45 \times 0.26 = 4.5 \times ....$

   a) 45 b) 0.26 c) 26 d) 2.6

4. $\frac{x}{3} = 20\%\text{ , then } x = \cdots$

   a) 0.8 b) 0.6 c) 0.06 d) 60

5. The point...... lies in the 2nd quadrant.

   a) (-2,1) (b) (-3,-4) c) (2,2) d) (1,-3)

6. 30% of 1000 =...... % of 500

   a) 20 b) 35 c) 60 d) 50

7. Moving the point (1,5) 2 unit to the right and 3 unit down, then the end point is ......

   a) (3,2) b) (2,3) c) (3,4) d) (4,3)

8. 20% + 35% = ...

   a) 0.5 b) 5 c) 55 d) 0.55

9. $2\frac{1}{2} = \cdots\%$

   a) 25 b) 250 c) 0.25 d) 2.5

10. 6 : 12 = ... %

    a) 50 b) 20 c) 6 d) 30

11. 320 cm = ... m

    a) 32000 b) 32 c) 3200 d) 3.2

12. 4.5 L × $\frac{\cdots\cdots}{\cdots\cdots} = 4500\text{ mL}$

    a) $\frac{1000\text{ mL}}{1\text{ L}}$ b) $\frac{1000\ L}{1\text{ L}}$ c) $\frac{100\text{ mL}}{1\text{ L}}$ d) $\frac{1\text{ L}}{1000\text{ mL}}$



13. Which of the following is a unit rate?
    - (a) 10 L.E per 2 kg
    - (b) 100 km per 3 hour
    - (c) 1.5 L per one bottle
    - (d) 10 spoons for 3 cups of tea.

14. if $\frac{6}{14} = \frac{x-2}{7}$ then x=.....
    - (a) 3
    - (b) 1
    - (c) 5
    - (d) 2

15. .... g = 30 Kg
    - (a) 0.03
    - (b) 3000
    - (c) 300
    - (d) 30000

16. Which of the following is the best buy ?
    - (a) 5 L.E per Kg
    - (b) $\frac{1}{5}$ Kg per L.E
    - (c) 20 L.E per 5 Kg
    - (d) 20 L.E per Kg

17. $\frac{1\ hr}{.........}$ Is a conversion factor ?
    - (a) 60 minutes
    - (b) 1 sec
    - (c) 1 minutes
    - (d) 60 sec

18. to convert from meter to Km the conversion factor is ....
    - (a) $\frac{1Km}{1000m}$
    - (b) $\frac{1000Km}{1m}$
    - (c) $\frac{1000m}{1km}$
    - (d) $\frac{1m}{1000km}$

19. $1\frac{1}{4}$ = ... %
    - (a) 75%
    - (b) 25%
    - (c) 130%
    - (d) 125%

20. Mona ate 25% of chocolate so she ate .... Half of chocolate
    - (a) Exactly
    - (b) more than
    - (c) less than
    - (d)

21. 50% of 50 Kg = ... Kg
    - (a) 20
    - (b) 50
    - (c) 25
    - (d) 100

22. The point R is located 5 space to the right and 2 space up from the origin What ordered pair represents the point R
    - (a) (5,2)
    - (b) (2,5)
    - (c) (0,5)
    - (d) (2,0)

23. if the point A (0,0) moved 2 units to the left then 3 units downward then A will be......................
    - (a) in 1^{st} quadrant
    - (b) in2^{nd} quadrant
    - (c) in 3^{rd} quadrant
    - (d) 4^{th} quadrant

24. The unit rate of the opposite tape diagram is : ....

    300 Km

    6 hours

    - (a) 300 Km per 6 hours
    - (b) 60 Km per hours
    - (c) 50 Km per hour
    - (d) 6 hours per 300 Km

25 The part = 120 , percent = 15 % , then the whole = ...

ⓐ 15 ⓑ 20 ⓒ 800 ⓓ 120

26 50 % of 100 ☐ 100 % of 50

ⓐ > ⓑ < ⓒ = ⓓ

27 A car consumes $\frac{1}{25}$ liter of petrol to cover 1 Km , then it cover ....Km per liter .

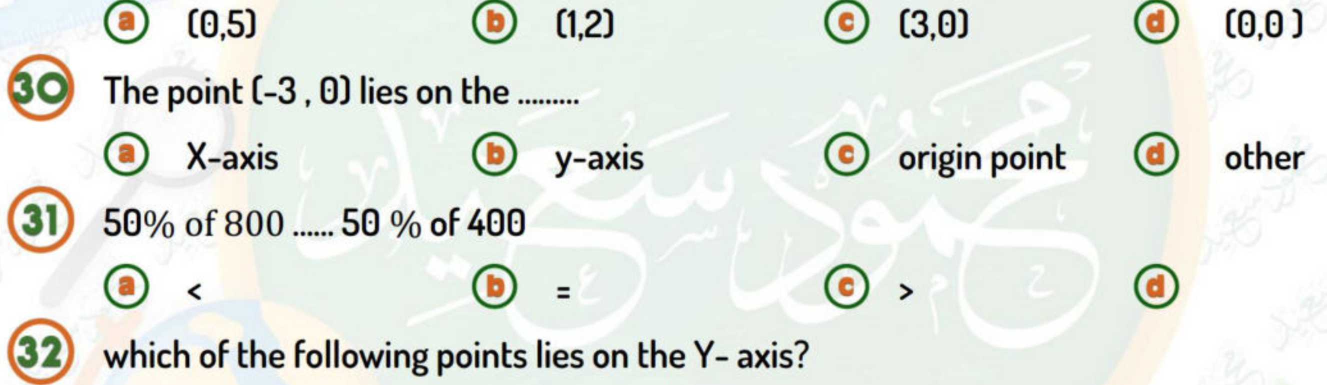
ⓐ 2.5 ⓑ 25 ⓒ 250 ⓓ 1

28 The ratio between two side lengths of square is.............

ⓐ 1:1 ⓑ 2:1 ⓒ 1:1 ⓓ 3:1

29 Which of the following points lies on the X-axis ?

ⓐ (0,5) ⓑ (1,2) ⓒ (3,0) ⓓ (0,0)



30 The point (-3 , 0) lies on the ....

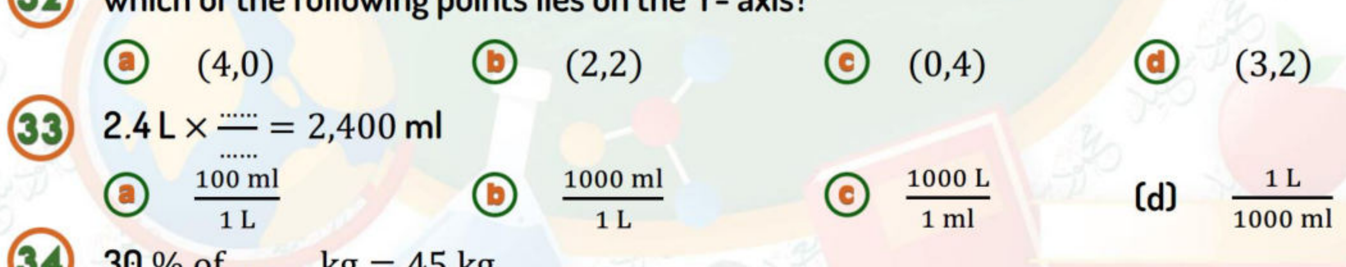
ⓐ X-axis ⓑ y-axis ⓒ origin point ⓓ other

31 50% of 800 ...... 50 % of 400

ⓐ < ⓑ = ⓒ > ⓓ

32 which of the following points lies on the Y- axis?

ⓐ (4,0) ⓑ (2,2) ⓒ (0,4) ⓓ (3,2)



33 $2.4\text{ L} \times \frac{\dots\dots}{\dots\dots} = 2{,}400\text{ ml}$

ⓐ $\frac{100\text{ ml}}{1\text{ L}}$ ⓑ $\frac{1000\text{ ml}}{1\text{ L}}$ ⓒ $\frac{1000\text{ L}}{1\text{ ml}}$ (d) $\frac{1\text{ L}}{1000\text{ ml}}$

34 $30\ \%$ of ....kg = 45 kg

ⓐ 1.5 ⓑ 0.15 ⓒ 150 ⓓ 1500



35 60% of $1000 = 30\%$ of ....

ⓐ 1500 ⓑ 2000 ⓒ 1240 ⓓ 600

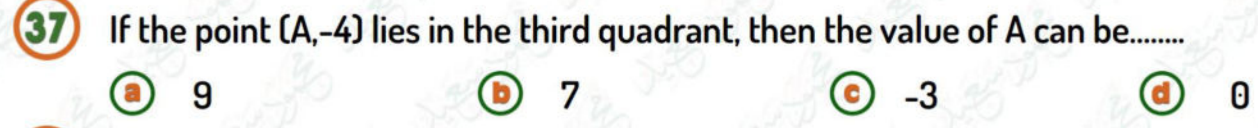


36 180 km per hour = ⋯ meter per min

ⓐ 2300 ⓑ 3500 ⓒ 3000 ⓓ 400

37 If the point (A,-4) lies in the third quadrant, then the value of A can be........

ⓐ 9 ⓑ 7 ⓒ -3 ⓓ 0



38 $3\frac{1}{4}$ days = ⋯ hours

ⓐ 24 ⓑ 48 ⓒ 12 ⓓ 78



39. If $\frac{x+1}{8} = 25\%$, then $x = \cdots$
   (a) 2 (b) 1 (c) 3 (d) 4
40. $8.32\text{ m} \times \frac{100\text{ cm}}{1\text{m}} = \cdots$....
   (a) 8.32 cm (b) 832 cm (c) $832\ cm$ (d) $8.32\ cm$
41. which of the following points lies on the X- axis?
   (a) (6,0) (b) (0,2) (c) (2,1) (d) (1,2)
42. ....$\% = 0.6$
   (a) 10 (b) 60 (c) 40 (d) 30
43. 450 sec 8min
   (a) > (b) = (c) < (d) otherwise
44. the point $(3, 1\frac{1}{2})$ lies in the … … . . quadrant
   (a) first (b) Second (c) third (d) fourth
47. 120 meter per hour=...... meters per min
   (a) 120 (b) 60 (c) 2 (d) 10
48. which of the following represent conversion factor ?
   (a) 10 mm : 1 cm (b) $\frac{1\ week}{8\ days}$ (c) $\frac{1kg}{200\ cm}$ (d) 60 min : 60 sec
49. 56 %....... 0.65
   (a) > (b) = (c) < (d) otherwise

Question 02 Complete

1. 25 % of 200 = ...
2. 70 % of 30 .... 30% of 70
3. 5% .... $\frac{1}{5}$
4. 5 % = ... × 10 %
5. 35% = 1 – ....%
6. If the price of toy is 150 L.E, then 20% of its price is ....L.E
7. In the point (3, 4), the y – coordinate is ....

8. The point (2, 8) is located .... units from the y-axis.
9. $\frac{1}{2}$ .... 50% . put >,<,=
10. 5000 Kg = ... g
11. 300 m x .... = 0.3 Km
12. 13 % of 100 = ...
13. 25 % - 0.25 = ...
14. 4.4 L x .... = 4400 mL
15. Height of a Wall 1.27 m ,then its height in Cm = ...
16. .... is a ratio that compare a quantity to one unit of second quantity .
17. $55\% = 1 -$.................................. %
18. In the point $(7,3)$,the X-coordinate is ....
19. $45\% \div \frac{9}{20} =$.................................. %
20. 30 Km per hour =...................................... meters per min
21. 30% Of 120 =...
22. $1-(20\ \% + 35\ \%) =$............................. %
23. If 75% of a number $= 135$, then this number $=$ ....
24. $\frac{x}{4} = 75\%$, then $x =$...............................
25. 8% of..................................=36
26. 600 gram per sec =..................... kg/min
27. the point (3,0) is located on the....................... axis
28. $\frac{3}{4}$ = ...%
29. Noah spends 48 L.E in 6 days ,then she spend..........................in 10 days.
30. $\frac{19}{20}$ 21%
31. 1 - 39 % =.........................%
32. fifty five students are on five teams (write as unit rate)............................
33. 3600 sec = ... hr.
34. the point (4,-1) is in..............................quadrant.



35. $\frac{25}{x} = \frac{5}{7}$ then x= ....

36. 20 % pupils in the class = 5 pupils, then the total number of pupils in class=........................

37. 350 cm=.................... m

38. 40% of 800=..............

39. the ordered pair representing the origin is..........................

Question 03 | Answer the following questions

1. The price of a tablet before a discount is 2500 L.E, if the discount is 15%. What is its price after the discount?

....

2. Find the value of x in each of the following :

(1) $\frac{x}{6} = 30\ \%$

....

(2) $\frac{x+4}{20} = 60\%$

....

3. Ahmed has 30 L.E, He spent $\frac{2}{5}$ of what he has.
   What is the percentage of the money he spent?

....

4. Mahmoud got 28.5 marks of 30 marks in the mathematics exam . Find the percentage of the marks he got.

....

5. The price of a table set is 16000 L.E and the sales taxes on the table set is 12 % .What is the price of the table set after adding the taxes

....

6. Youssef bought a car for 100,000 pounds , he paid 25% of its price . How much money did he pay ?

....

7. If the price of 5 kilograms of cheese is 500 L.E . Find the price of 10 kilogram of the same cheese .

....

8. Which is the best buy ?

(1) 20 Kg per 40 L.E (2) 25 Kg per 100 L.E

9. <u>Find the value of X in each of the following :</u>

(a) $\frac{3}{x-5} = 6\ \%$

....

(b) $\frac{x}{15} = 25\%$

....

10. In a school 480 students, 72 students were absent , calculate the percentage of absence.

....

11. which the longest 4.25 km or 867 cm?

....

12. Hady bought a phone, he was given a 10% discount of its marked price which 7400 L.E , find its price after discount.

....

13. A factory (A) produces 700 lamps in 40 hours and another factory (B) produces 800 lamp of the same kind in 50 hours, which factory has a better rate of production?

....

14. A tennis ball travels at 300 Km/Hr . calculate it's speed in Km/min .

....



15 The number of students is 800 . one day 5 % of them were absent find the number of present students that day .

....

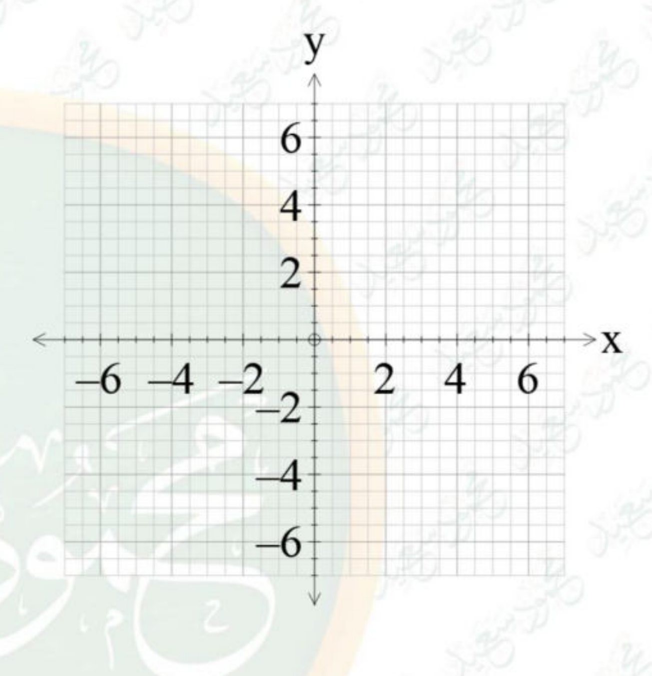
16 using the following coordinate plane. Locate

points :

A(2,3)

B(3,2)

C(5,1)



تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم



Answers





March Questions Bank



Question 01 Choose the correct answer

1. Which of the following is not conversion factor?
   - (a) $\frac{1\text{ hr}}{1\text{ min}}$
   - (b) $\frac{1000\text{ mL}}{1\text{L}}$
   - (c) $\frac{1000\text{ m}}{1\text{ km}}$
   - (d) $\frac{1\text{ HR}}{3600\ SEC}$
2. 40% + 0.32 =...... %
   - (a) 7.2
   - (b) 0.72
   - (c) 72
   - (d) 720
3. $45 \times 0.26 = 4.5 \times ....$
   - (a) 45
   - (b) 0.26
   - (c) 26
   - (d) 2.6
4. $\frac{x}{3} = 20\%\ , then\ x = \cdots$
   - (a) 0.8
   - (b) 0.6
   - (c) 0.06
   - (d) 60
5. The point...... lies in the 2nd quadrant.
   - (a) (-2,1)
   - (b) (-3,-4)
   - (c) (2,2)
   - (d) (1,-3)
6. 30% of 1000 =...... % of 500
   - (a) 20
   - (b) 35
   - (c) 60
   - (d) 50
7. Moving the point (1,5) 2 unit to the right and 3 unit down, then the end point is ......
   - (a) (3,2)
   - (b) (2,3)
   - (c) (3,4)
   - (d) (4,3)
8. 20% + 35% = ...
   - (a) 0.5
   - (b) 5
   - (c) 55
   - (d) 0.55
9. $2\frac{1}{2} = \cdots\%$
   - (a) 25
   - (b) 250
   - (c) 0.25
   - (d) 2.5
10. 6 : 12 = ... %
    - (a) 50
    - (b) 20
    - (c) 6
    - (d) 30
11. 320 cm = ... m
    - (a) 32000
    - (b) 32
    - (c) 3200
    - (d) 3.2
12. 4.5 L × $\frac{.........}{.........} = 4500\text{ mL}$
    - (a) $\frac{1000\text{ mL}}{1\text{ L}}$
    - (b) $\frac{1000\ L}{1\text{ L}}$
    - (c) $\frac{100\text{ mL}}{1\text{ L}}$
    - (d) $\frac{1\text{ L}}{1000\text{ mL}}$

13. Which of the following is a unit rate?
   - (a) 10 L.E per 2 kg
   - (b) 100 km per 3 hour
   - (c) 1.5 L per one bottle
   - (d) 10 spoons for 3 cups of tea.

14. if $\frac{6}{14} = \frac{x-2}{7}$ then x=.....
   - (a) 3
   - (b) 1
   - (c) 5
   - (d) 2

15. .... g = 30 Kg
   - (a) 0.03
   - (b) 3000
   - (c) 300
   - (d) 30000

16. Which of the following is the best buy ?
   - (a) 5 L.E per Kg
   - (b) $\frac{1}{5}$ Kg per L.E
   - (c) 20 L.E per 5 Kg
   - (d) 20 L.E per Kg

17. $\frac{1\ hr}{.........}$ Is a conversion factor ?
   - (a) 60 minutes
   - (b) 1 sec
   - (c) 1 minutes
   - (d) 60 sec

18. to convert from meter to Km the conversion factor is ....
   - (a) $\frac{1Km}{1000m}$
   - (b) $\frac{1000Km}{1m}$
   - (c) $\frac{1000m}{1km}$
   - (d) $\frac{1m}{1000km}$

19. $1\frac{1}{4}$ = ... %
   - (a) 75%
   - (b) 25%
   - (c) 130%
   - (d) 125%

20. Mona ate 25% of chocolate so she ate .... Half of chocolate
   - (a) Exactly
   - (b) more than
   - (c) less than
   - (d)

21. 50% of 50 Kg = ... Kg
   - (a) 20
   - (b) 50
   - (c) 25
   - (d) 100

22. The point R is located 5 space to the right and 2 space up from the origin What ordered pair represents the point R
   - (a) (5,2)
   - (b) (2,5)
   - (c) (0,5)
   - (d) (2,0)

23. if the point A (0,0) moved 2 units to the left then 3 units downward then A will be.......................
   - (a) in 1^{st} quadrant
   - (b) in2^{nd} quadrant
   - (c) in 3^{rd} quadrant
   - (d) 4^{th} quadrant

24. The unit rate of the opposite tape diagram is : ....

300 Km

6 hours

   - (a) 300 Km per 6 hours
   - (b) 60 Km per hours
   - (c) 50 Km per hour
   - (d) 6 hours per 300 Km

25 The part = 120 , percent = 15 % , then the whole = ...

(a) 15 (b) 20 (c) 800 (d) 120

26 50 % of 100 ☐ 100 % of 50

(a) > (b) < (c) = (d)

27 A car consumes $\frac{1}{25}$ liter of petrol to cover 1 Km , then it cover ....Km per liter .

(a) 2.5 (b) 25 (c) 250 (d) 1

28 The ratio between two side lengths of square is............

(a) 1:1 (b) 2:1 (c) 1:1 (d) 3:1

29 Which of the following points lies on the X-axis ?

(a) (0,5) (b) (1,2) (c) (3,0) (d) (0,0)

30 The point (-3 , 0) lies on the ....

(a) X-axis (b) y-axis (c) origin point (d) other

31 50% of 800 ...... 50 % of 400

(a) < (b) = (c) > (d)

32 which of the following points lies on the Y- axis?

(a) (4,0) (b) (2,2) (c) (0,4) (d) (3,2)

33 $2.4\text{ L} \times \frac{\cdots}{\cdots} = 2,400\text{ ml}$

(a) $\frac{100\text{ ml}}{1\text{ L}}$ (b) $\frac{1000\text{ ml}}{1\text{ L}}$ (c) $\frac{1000\text{ L}}{1\text{ ml}}$ (d) $\frac{1\text{ L}}{1000\text{ ml}}$

34 30 % of ....kg = 45 kg

(a) 1.5 (b) 0.15 (c) 150 (d) 1500

35 60% of 1000 = 30% of ....

(a) 1500 (b) 2000 (c) 1240 (d) 600

36 180 km per hour = ⋯ meter per min

(a) 2300 (b) 3500 (c) 3000 (d) 400

37 If the point (A,-4) lies in the third quadrant, then the value of A can be........

(a) 9 (b) 7 (c) -3 (d) 0

38 $3\frac{1}{4}$ days = ⋯ hours

(a) 24 (b) 48 (c) 12 (d) 78

39. If $\frac{x+1}{8} = 25\%$, then $x = \cdots$

(a) 2 (b) 1 (c) 3 (d) 4

40. 8.32 m $\times \frac{100\ cm}{1m} = \cdots$....

(a) 8.32 cm (b) 832 cm (c) $832\ cm$ (d) $8.32\ cm$

41. which of the following points lies on the X- axis?

(a) (6,0) (b) (0,2) (c) (2,1) (d) (1,2)

42. ....% $= 0.6$

(a) 10 (b) 60 (c) 40 (d) 30

43. 450 sec 8min

(a) > (b) = (c) < (d) otherwise

44. the point (3,1 $\frac{1}{2}$) lies in the … … . . quadrant

(a) first (b) Second (c) third (d) fourth

47. 120 meter per hour=...... meters per min

(a) 120 (b) 60 (c) 2 (d) 10

48. which of the following represent conversion factor ?

(a) 10 mm : 1 cm (b) $\frac{1\ week}{8\ days}$ (c) $\frac{1kg}{200\ cm}$ (d) 60 min : 60 sec

49. 56 %....... 0.65

(a) > (b) = (c) < (d) otherwise

Question 02 Complete

1. 25 % of 200 = ..50......
2. 70 % of 30 ......=.... 30% of 70
3. 5% ......<....... $\frac{1}{5}$
4. $5\ \% = \frac{1}{2} \times 10\ \%$
5. 35% = 1 – 65 %
6. If the price of toy is 150 L.E, then 20% of its price is 30 L.E
7. In the point (3, 4), the y – coordinate is 4

8. The point (2, 8) is located 2 units from the y-axis.
9. $\frac{1}{2}$ ....=............ 50% . put >,<,=
10. 5000 Kg = ... g (5,000,000) g
11. 300 m x .... = 0.3 Km ($\frac{1Km}{1000\ m}$)
12. 13 % of 100 = ... (13)
13. 25 % - 0.25 = ... (Zero)
14. 4.4 L x .... = 4400 mL ($\frac{1000\ mL}{1L}$)
15. Height of a Wall 1.27 m ,then its height in Cm = ...(1.27 m x $\frac{100\ cm}{1\ m}$ =127).....
16. ......(unit rate)...... is a ratio that compare a quantity to one unit of second quantity .
17. $55\% = 1 - \cdots 45 \ldots \%$
18. In the point $(7,3)$,the X-coordinate is ...7...
19. $45\% \div \frac{9}{20} = \cdots 100 \ldots \%$
20. 30 Km per hour $= \cdots 500 \ldots$ meters per min
21. 30% Of $120 = \cdots 36 \ldots$
22. $1 - (20\ \% + 35\ \%) = \cdots 45 \ldots .\ \%$
23. If 75% of a number $= 135$, then this number $= \cdots 180 \ldots$
24. $\frac{x}{4} = 75\%$, then $x = \cdots 3 \ldots$
25. 8% of..... 450 =36
26. 600 gram per sec =............36... kg/min
27. the point (3,0) is located on the......x..... axis
28. $\frac{3}{4}$ = ...75.....%
29. Noah spends 48 L.E in 6 days ,then she spend...80....in 10 days
30. $\frac{19}{20}$ ... > 21%
31. 1 - 39 % =...61...%
32. fifty five students are on five teams (write as unit rate)......11 student\team........
33. 3600 sec = ...1...... hr.
34. the point (4,-1) is in.........second..........quadrant

35. $\frac{25}{x} = \frac{5}{7}$ then x= ......35............

36. 20 % pupils in the class = 5 pupils, then the total number of pupils in class=......25......

37. 350 cm=.............3.5....... m

38. 40% of 800=......320.........

39. the ordered pair representing the origin is...... (0 , 0) ......

Question 03 Answer the following questions

1. The price of a tablet before a discount is 2500 L.E, if the discount is 15%. What is its price after the discount?
The discount of 15% of 2500 L.E = 375 L.E
The price after the discount = 2500 – 375 = 2125 L.E

2. Find the value of x in each of the following :
(1) $\frac{x}{6} = 30\ \%$
$\frac{x}{6} = \frac{30}{100}$ ‘‘‘‘ $10\,x = 18$, $x = 1.8$
(2) $\frac{x+4}{20} = 60\%$
$x + 4 = \frac{6\times 20}{10}$ $x + 4 = 12$, $x = 8$

3. Ahmed has 30 L.E, He spent $\frac{2}{5}$ of what he has.
What is the percentage of the money he spent?
the percentage = 40 %

4. Mahmoud got 28.5 marks of 30 marks in the mathematics exam . Find the percentage of the marks he got.

The percentage = 95 %

5. The price of a table set is 16000 L.E and the sales taxes on the table set is 12 % .What is the price of the table set after adding the taxes
(16,000 + 1,920 = (17,920)

6. Youssef bought a car for 100,000 pounds , he paid 25% of its price . How much money did he pay ?
(25,000 L.E)

7. If the price of 5 kilograms of cheese is 500 L.E . Find the price of 10 kilogram of the same cheese .

(1,000 L.E)

8. Which is the best buy ?

(1) 20 Kg per 40 L.E (2) 25 Kg per 100 L.E

9. <u>Find the value of X in each of the following :</u>

(a) $\frac{3}{x-5} = 6\ \%$

$6\times (x-5) = 3\times 100$

$6\,x - 30 = 300$

$6x = 270$

$x = 45$

(b) $\frac{x}{15} = 25\%$

$100\ x = 15\times 25$

$100x = 375$

$x = \frac{375}{100} = 3.75$

10. In a school 480 students, 72 students were absent , calculate the percentage of absence.

$\frac{72}{480}\times 100 = 15\%$

11. which the longest 4.25 km or 867 cm?

4.25 km $\times \frac{100{,}000cm}{1km} = 425{,}000cm$

then , 4.25 km $>$ 867cm

12. Hady bought a phone, he was given a 10% discount of its marked price which 7400 L.E , find its price after discount.

10% of 7400L.E $= 740$

The price after discount $= 7400 - 740 = 6{,}660\ L.E$

13. A factory (A) produces 700 lamps in 40 hours and another factory (B) produces 800 lamp of the same kind in 50 hours, which factory has a better rate of production?

Unit rate of factor A = $\frac{700\ lamp}{40\ hr}$ = 17.5 lamp\hr

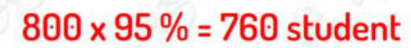
Unit rate of factor B = $\frac{800\ lamp}{50\ hr}$ = 16 lamp\hr

Then factor A is better than factor B

14 A tennis ball travels at 300 Km/Hr . calculate it's speed in Km/min .

$\frac{300km}{1\ hr} \times \frac{1\ hr}{60\ min} = \frac{300\ km}{60\ min} = 5$ km\min

15 The number of students is 800 . one day 5 % of them were absent find the number of present students that day .



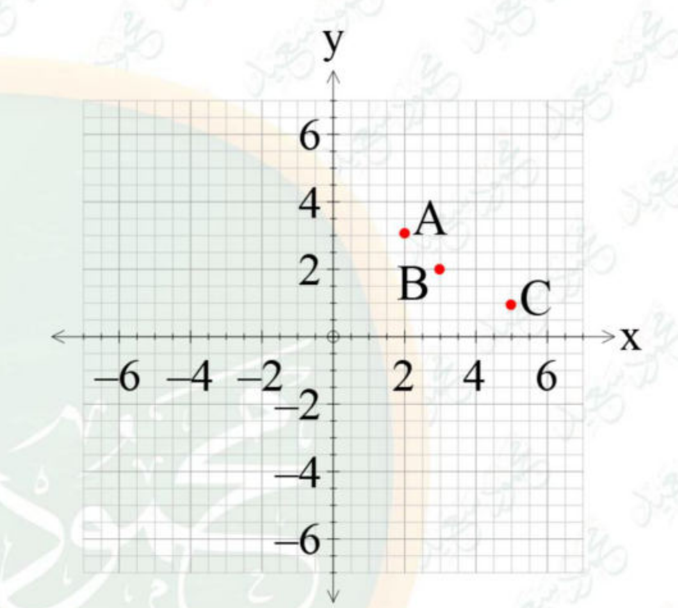
16 <u>using the following coordinate plane. Locate</u>

<u>points :-</u>

A(2,3)

B(3,2)

C(5,1)



تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

1. Choose the correct answer:

1) Which of the following is a unit rate?

a. 60 km per 3 hours
b. 150 passengers in 3 buses
c. 40 L.E per 2 kg
d. 15 kilometer per liter

2) Ahmed saves 35 L.E weekly, then he save ……… L.E in 10 days

a. 70 b. 50 c. 350 d. 5

3) A car consumes $\frac{1}{4}$ liter of petrol to cover 1 km, then it covers ……… km per liter

a. 1 b. 4 c. 8 d. 16

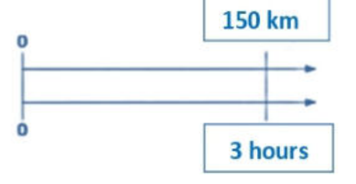
4) The unit rate of the opposite tape diagram is ………





a. 60 L.E per 2 kg
b. 40 L.E per kg
c. 30 L.E per kg
d. 120 L.E per kg

5) The unit rate of the opposite double number line is ………



a. 200 km per 4 hours
b. 50 km per hour
c. 150 km per hour
d. 50 km per 2 hours

6) By using the opposite ratio table, the unit rate is ……… kg per L.E

Kg	1	5
L.E	………	30



a. 5 b. $\frac{1}{5}$ c. 6 d. $\frac{1}{6}$

7) Which of the following is a conversion factor?

a. 100 m = 1 km b. $\frac{2\ cm}{5\ m}$ c. $\frac{1\ m}{100\ cm}$ d. 3 m = 4 m

8) Which of the following is NOT a conversion factor?

a. $\frac{60\ min}{1\ hr}$ b. $\frac{1000\ mm}{1\ kg}$ c. 1 day : 24 hours d. $\frac{1\ m}{1000\ mm}$

9) $\frac{1\ km}{\dots\dots}$ is a conversion factor

a. 1000 m b. 1000 kg c. 100 m d. 1000 mm

10) 2 hr = ……… Min

a. 30 b. 60 c. 120 d. 180

11) 36 km per hr = ……… m per hr

a. 360 b. 3,600 c. 36,000 d. 360,000

12) 5 m per sec = ……… km per hr

a. 18 b. 180 c. 18,000 d. 1.8

13) 2.7 kg × $\frac{\dots\dots}{\dots\dots}$ = 2,700 gm

a. $\frac{1\ kg}{1{,}000\ gm}$ b. $\frac{1{,}000\ gm}{1\ kg}$ c. $\frac{1{,}000\ kg}{1\ gm}$ d. $\frac{1\ gm}{1{,}000\ kg}$

14) $\frac{80\ km}{1\ hr} \times \frac{\dots\dots}{\dots\dots} = \frac{80{,}000\ m}{1\ hr}$

a. $\frac{1\ km}{1{,}000\ m}$ b. $\frac{1{,}000\ m}{1\ km}$ c. $\frac{1{,}000\ km}{1\ m}$ d. $\frac{1\ m}{1{,}000\ km}$

15) $1\frac{1}{4}$ day ……… 25 hours

a. > b. < c. = d. Otherwise

16) 60 km per hr ……… 6,000 m per hr

a. > b. < c. = d. Otherwise

17) The following statement: " 80 km per hr " represents ………

a. Unit rate b. Conversion factor c. Percentage d. Otherwise

18) The following statement: " 1 m : 100 cm " represents ………

a. Unit rate b. Conversion factor c. Percentage d. Otherwise

19) $\frac{8}{20}$ = ……… %

a. 40 b. 45 c. 60 d. 90

20) 50 % = ………

a. $\frac{1}{4}$ b. 0.5 c. 5 d. 50

21) 0.725 = ……… %

a. 72.5 b. 7.25 c. 725 d. 0.725

22) 1 – 25 % = ………

a. $\frac{1}{4}$ b. $\frac{3}{4}$ c. 25 d. 75

23) 30 % + 50 % = ………

a. 80 b. 8 c. 0.8 d. 0.08

24) $1\frac{1}{4}$ = ……… %

a. 125 b. 150 c. 175 d. 225

25) 35 % of kilogram = ……… gm

a. 35 b. 350 c. 3,500 d. 0.35

26) 30 % of 700 L.E = ……… L.E

a. 370 b. 300 c. 210 d. 21

27) 75 % of 100 = 25 % of ………

a. 100 b. 200 c. 300 d. 400

28) 60 % ……… $\frac{3}{5}$

a. > b. < c. = d. Otherwise

29) 20 % of a number = 100 , then the number is ………

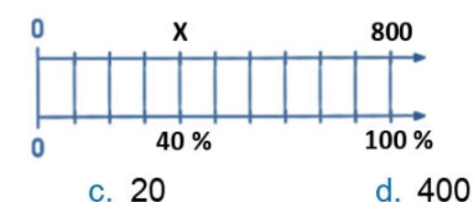
a. 200 b. 300 c. 400 d. 500

30) From the opposite table the value of x = ...

whole	part	percent
20	5	x

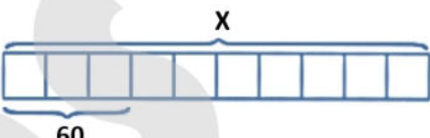
a. 25 % b. $\frac{1}{4}$ c. 100 d. 4

31) From the opposite double number line the value of x = ...



a. 32 b. 320 c. 20 d. 400

32) From the opposite double number line the value of x = ...



a. 100 b. 200 c. 600 d. 30

33) The point A (- 2 , 5) lies in .... quadrant

a. First b. Second c. Third d. Fourth

34) The point (0 , 5) lies in ....

a. y-axis b. x-axis c. 1st quadrant d. 4th quadrant

35) The point .... lies in the 2nd quadrant.

a. (3 , 2) b. (- 3 , - 2) c. (3 , - 2) d. (- 3 , 2)

36) Which of the following points lies on the x-axis?

a. (- 1 , 0) b. (0 , - 1) c. (2 , 2) d. (- 2 , - 2)

37) If the point (x , - 5) lies in the 3rd quadrant, then the value of x is ....

a. 0 b. 3 c. - 2 d. 5

38) The image of the point (3 , - 4) by reflection across the x-axis is ....

a. (3 , - 4) b. (- 3 , 4) c. (3 , 4) d. (- 3 , - 4)

39) The image of the point (0 , 5) by reflection across the y-axis is ....

a. (0 , 5) b. (0 , - 5) c. (5 , 0) d. (- 5 , 0)

40) The image of the point (- x , y) by reflection across the x-axis ....

a. (- x , y) b. (x , - y) c. (x , y) d. (- x , - y)

41) If the point A (5 , 3) moved 3 uints to the right and 2 units down , then the point A will be ....

a. (8 , 5) b. (2 , 1) c. (8 , 1) d. (2 , 5)

2. Complete:

1) If Ahmed spends 180 L.E in 3 days, then he spends .... L.E per day

2) 53 L = ... ml

3) 12,700 cm = ... m

4) 3.5 kg = ... gm

5) 2,450 gm = ... kg

6) 1 hour = ... seconds

7) 25 km per hour = ... m per hour

8) 3,000 m per minute = ... km per hour

9) The conversion factor of converting from Liter to milliliter is $\frac{\dots}{\dots}$

10) 45 % = ... (as a fraction)

11) 127 % = ... (as a mixed number)

12) 8 % = ... (as a decimal)

13) $\frac{3}{4}$ = ... %

14) 0.6 = ... %

15) In the math exam, if Sara scored 35 marks out of 50 marks, then the percentage of the scored mark of Sara in math = ... %

16) If $\frac{x}{5}$ = 40 % , then x = ...

17) If the percentage of boys in a school is 65 % , then the percentage of girls is .... %

18) 5 % of 200 = ...

19) 10 % of .... = 25

20) 30 % + 50 % + ... = 1

21) 1 – (25 % + 50 %) = ... %

22) 15 % - 0.15 = ...

23) .... % of 50 = 20

24) The ordered pair which represents the origin point is (..... , ...)

25) The y-coordinate in the ordered pair (3 , 5) is ....

26) The point A (- 1 , - 3) lies in .... quadrant

27) The image of the point (2 , 1) by reflection across the y-axis is ....

28) The image of the point (4 , 0) by reflection across the x-axis is ....

3. *Answer the following:*

1) If a car cover 30 kilometers for every 6 liters of gas.
How many kilometers can the driver of this car travel with 4 liters of gas?

....

2) If the price of 2 kilograms of cheese is 400 L.E.
How much would you pay for 3 kilograms of chees?

....

3) The height of the building is 12 meters. **What is its height in centimeters?**

....

4) If the capacity of bottle of juice is 250 milliliters. **Find its capacity in liters.**

....

5) If the speed of a car is 60 km per hour. **How many meters which the car covers in 2 hours?**

....

6) There are 300 pupils in a school, 60 pupils were absent one day.
Find the percentage of the absent pupils on that day.

....

7) A class contains 40 pupils, 32 pupils are succeed. **Find the percentage of the failed pupils.**

....

8) A basket contains 35 oranges and 15 apples. **What is the percentage of the oranges in this basket?**

....

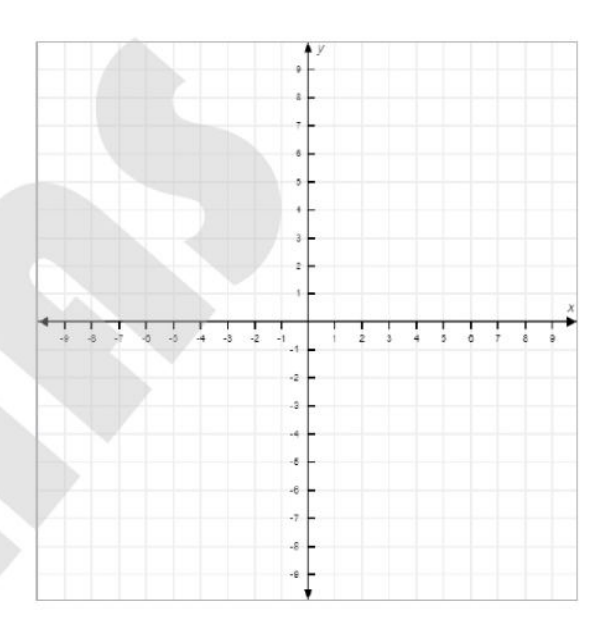
9) The price of a T-shirt is 240 L.E. if the discount is 20 %.
What is its price after discount?

....

10) A man deposited 8,000 pounds in a bank with annual interest 30 %.
Find the total amount which he gets at the end of one year.

....

11) By using the opposite coordinate plane:



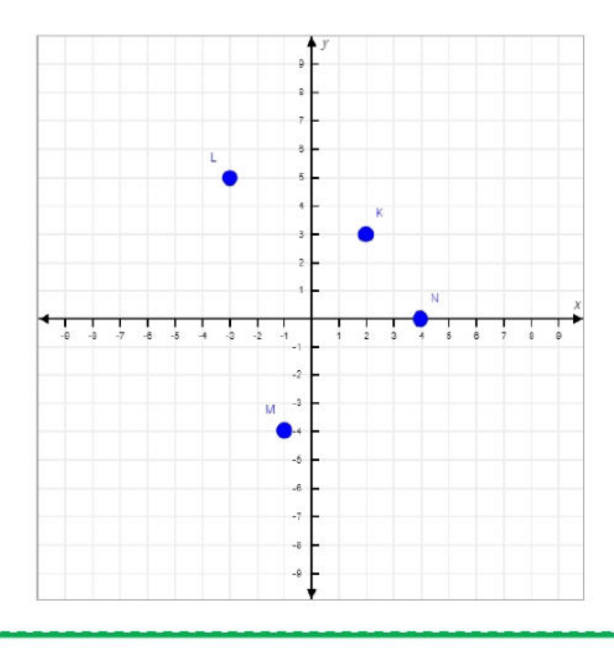
a. Plot each of the following points on the coordinate plane.

- **A** (- 1 , 2)
- **B** (4 , 5)
- **C** (- 3 , - 4)
- **D** (0 , 3)

b. From the coordinate plane, complete:

- The point A lies in ………… quadrant
- The point B lies in ………... quadrant
- The point C lies in ……….. quadrant
- The point D lies on …… axis

12) From the opposite coordinate plane:



a. Record the coordinates of each point.

- **k** (….. , ……)
- **L** (….. , ……)
- **M** (….. , ……)
- **N** (….. , ……)

b. Reflect each point in the y-axis on the opposite coordinate plane.

Prim 6 – Answer Guide | March

1. Choose:

1) d	11) c	21) a	31) b	41) c
2) b	12) a	22) b	32) b	
3) b	13) b	23) c	33) b	
4) c	14) b	24) a	34) a	
5) b	15) a	25) b	35) d	
6) d	16) a	26) c	36) a	
7) c	17) a	27) c	37) c	
8) b	18) b	28) c	38) c	
9) a	19) a	29) d	39) a	
10) c	20) b	30) a	40) d	

2. Complete:

1) 60	11) $1\frac{27}{100}$	21) 25
2) 53,000	12) 0.08	22) 0
3) 127	13) 75 %	23) 40
4) 3,500	14) 60 %	24) (0 , 0)
5) 2.45	15) 70 %	25) 5
6) 3,600	16) 2	26) Third
7) 25,000	17) 35 %	27) (- 2 , 1)
8) 180	18) 10	28) (4 , 0)
9) $\frac{1000\ ml}{1\ l}$	19) 250	
10) $\frac{45}{100}$	20) 20 %	

3. Essay:

1) Unit rate = $\frac{30}{6}$ = 5 km per liter
Number of kilometers = 4 × 5 = 20 km

2) Unit rate = $\frac{400}{2}$ = 200 L.E per kg
The price of 3 km = 3 × 200 = 600 L.E

3) The height in cm = 12 m × $\frac{100\ cm}{1\ m}$ = 1,200 cm

4) The capacity in liters = 250 ml × $\frac{1\ l}{1000\ ml}$ = 0.25 L

5) The speed of car in meters = $\frac{60\ km}{1\ hr}$ × $\frac{1000\ m}{1\ km}$ = 60,000 meters per hour
The number of meters in 2 hours = 60,000 × 2 = 120,000 meters

6) The percent of absent pupils = $\frac{60}{300}$ × 100 % = 20 %

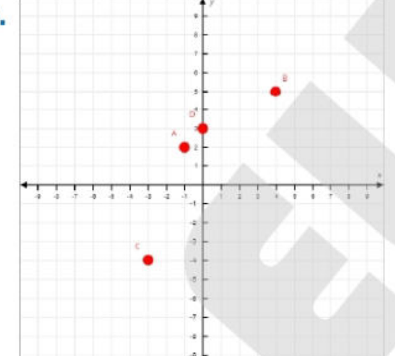
7) The percentage of failed pupils = $\frac{8}{40}$ × 100 % = 20 %

8) The percentage of oranges = $\frac{35}{50}$ × 100 % = 70 %

9) The discount of a T-shirt = 240 × $\frac{20}{100}$ = 48 L.E
The price after discount = 240 – 48 = 192 L.E

10) The amount of interest = 8,000 × $\frac{30}{100}$ = 2,400 pounds
The total amount = 8,000 + 2,400 = 10,400 pounds

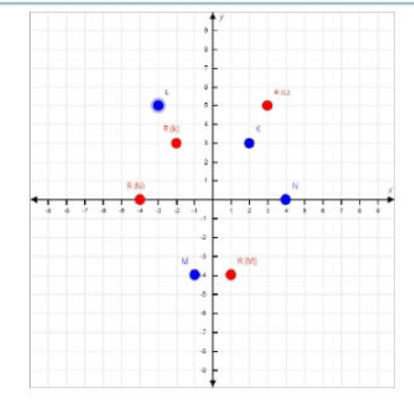
11) a.



b.
- Second
- First
- Third
- y-axis

12) a.
- **K (2 , 3)**
- **L (- 3 , 5)**
- **M (- 1 , - 4)**
- **N (4 , 0)**

b.



Q1: Choose the correct answer:

1 Murad spends 24 pounds in 6 days, then he will spend .... LE in 10 days.

(a) 240 (b) 60 (c) 40 (d) 30

2 Mazen studies 21 pages in 6 hours, then the unit rate of his study is .... pages/hour.

(a) 5 (b) 4 (c) 3.5 (d) 5.5

3 45 L.E for 5kg of tomatos, then the cost of 20 kg of tomatos is .... L.E

(a) 45 (b) 90 (c) 180 (d) 200

4 By using the opposite double number line the unit rate is ....

0 — 44 km
0 — 4 hours

(a) 4 km per hour (b) 11 km per hour

(c) 1 hour per 4 km (d) 10 km per hour

5 120 m per min = ... cm per sec

(a) 12000 (b) 200 (c) 720 (d) 1200

6 1 day: 24 hours is considered a/an ....

(a) unit ratio (b) equivalent ratio (c) conversion factor (d) otherwise

7 180 minutes = ... hours

(a) 2 (b) 3 (c) 4 (d) 5

8 360 sec = ... hour

(a) 60 (b) 10 (c) 3600 (d) 0.1

9 2.3 pounds = ... piasters

(a) 2300 (b) 230 (c) 23 (d) 2.3

10 5200 dm = ... km

(a) 52 (b) 5.2 (c) 0.52 (d) 0.052

11 $4.8 \text{ L} \times \frac{\text{..........}}{\text{..........}} = 4800 \text{ mL}$

(a) $\frac{100 \text{ mL}}{1 \text{ L}}$ (b) $\frac{1,000 \text{ L}}{1 \text{ mL}}$ (c) $\frac{1,000 \text{ mL}}{1 \text{ L}}$ (d) $\frac{1\text{L}}{1,000 \text{ mL}}$

12 .... gm = 60 kg

(a) 0.06 (b) 6,000 (c) 600 (d) 60,000

MR.AHMED NASSR
TEL: 01003780857

13 Which of the following is a unit rate ?

ⓐ 40 LE per 2 kg ⓑ 450 km per 3 hours
ⓒ 2 liters per bottle ⓓ 4 spoons of sugar per 2 cups

14 280 cm / sec = ... m/min

ⓐ 140 ⓑ 168 ⓒ 280 ⓓ 28

15 If the percentage of success in a school is 76 %, then the percentage of failures is ..... %

ⓐ 24 ⓑ 44 ⓒ 67 ⓓ 90

16 1 – 75% = ...

ⓐ 74% ⓑ 0.25 ⓒ 25 ⓓ 2.5

17 225% = ...

ⓐ $1\frac{25}{100}$ ⓑ $2\frac{25}{200}$ ⓒ $2\frac{1}{4}$ ⓓ 0.225

18 $\frac{3}{6}$ = ... %

ⓐ 30 ⓑ 25 ⓒ 50 ⓓ 60

19 49 % = ...

ⓐ $\frac{4.9}{100}$ ⓑ 49 ⓒ 0.49 ⓓ 4900

20 35% of 160 = ...

ⓐ $\frac{56}{100}$ ⓑ 56 ⓒ 5.6 ⓓ 560

21 5% of .... = 5

ⓐ 25 ⓑ 50 ⓒ 100 ⓓ 125

22 Farida ate 45 % of a pizza, so she ate .... half the pizza.

ⓐ exactly ⓑ more than ⓒ less than ⓓ otherwise

23 45 % of a litre = ... mL

ⓐ 450 ⓑ 4500 ⓒ 45 ⓓ 0.45

24 5% of .... LE = 120 LE

ⓐ 240 ⓑ 2400 ⓒ 1200 ⓓ 120

25 If 100% of a number is 80, what is 50% of this number?

ⓐ 0.4 ⓑ 4 ⓒ 40 ⓓ 400











26 If the original price of a dress is 1,700 LE, then its sale price after apply a discount 20% is ....

ⓐ 1360 ⓑ 340 ⓒ 170 ⓓ 17

27 30% of a number equals..............

ⓐ its third ⓑ its three tenths

ⓒ its three fifths ⓓ its three sevenths

28 20% of a number = ... % of half the same number

ⓐ 10 ⓑ 20 ⓒ 30 ⓓ 40

29 1 – 1% = ... %

ⓐ zero ⓑ 2 ⓒ 99 ⓓ 1

30 The percentage of 4 squares of 400 squares is .... %.

ⓐ 4 ⓑ 1 ⓒ 0.01 ⓓ 0.1

Q2: Complete the following:

1 A motorcycle covers 160 km in 4 hours, then the rate of speed is .... km/hr.

2 A rabbit jumps 3 leaps in 1 meter, then it will jump .... leaps in 15 meters.

3 A factory produces 1,800 cans of soda every 6 hours, then in 15 hours it will produce .... cans of soda.

4 If there are 81 litres of water in 18 bottles, then there .... litres in 6 bottles

5 280 gram/sec = ... = ...kg/min

6 24 cm per second = ... = ... meter/minute

7 45 m/min = ... = ... km/hr

8 71,500 cm = ... km

9 $\frac{23}{25}$ = ... %

10 2.15 = ... %

11 There are 60 students in a class. If the percentage of girls is 40%, then the number of boys is ....

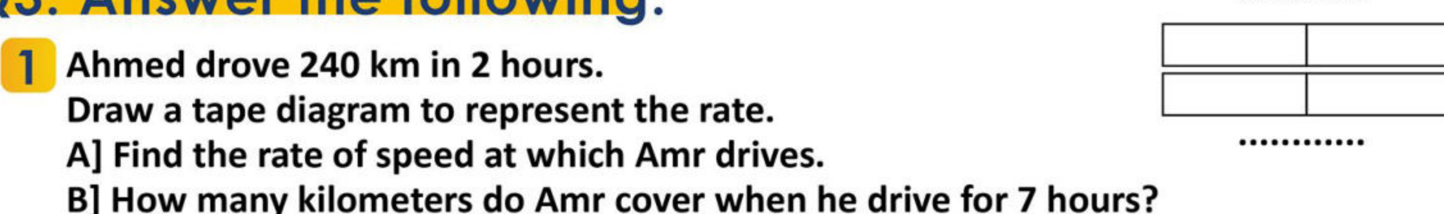
12 If 10% of a number is 36, then the number is ....

13 Belal scored 570 marks out of 600. Then the percentage of marks scored is ....

14 If there are 50 students in class and 96% of them passed, then the students who failed the test are .... students.

Q3: Answer the following:

1 Ahmed drove 240 km in 2 hours.
Draw a tape diagram to represent the rate.
A] Find the rate of speed at which Amr drives.
B] How many kilometers do Amr cover when he drive for 7 hours?



2 A machine produces 240 m of cloth every 8 hours. Draw the rate of production using a double line.
Then find the unit rate of production per one hour.

0
0

3 An athlete runs at a constant speed of 8 m/sec, Calculate his average speed in kilometers per hour..

4 There's a dog running at a constant speed of 48 km/hr, convert its speed into meters/min..

5 If the percentage of students who succeeded in the science exam is 87%, Find percentage of students who failed..

6 In a survey of 80 people, if the percentage of people who chose Al-Ahly Club as their favorite club is 80%.
Find the number of people who don't choose Al-Ahly Club.

7 If there are 40% of math books in a school library containing 1,800 books in total,
Find the number of math books in the library.

0
0 10 % 20 % 30 % 40 % 50 % 60 % 70 % 80 % 90 % 100 %

8 A piece of cloth, 20 meters long, was put in water, it shrank by 4%.
What is the length after shrinking? ....

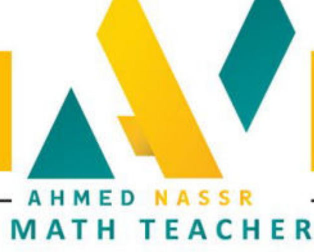
9 A laptop that costs 24,500 LE is 20% off. What is the sale price?

10 If the original price of a meal is 460 LE, if there's a tax of 15%,
Calculate the price of the meal after adding tax..

11 If the price of jeans is 720 L.E, if there's 35% percent off,
Calculate the price of two jeans.





Q1: Choose the correct answer:

1 Which of the following lies in the 2nd quadrant?

ⓐ (2 , 7) ⓑ (5 , − 3) ⓒ (−5 , −9) ⓓ (−1 , 5)

2 The point .... lies on the x-axis.

ⓐ (0 , 3) ⓑ (−1, −4) ⓒ (−5 , 0) ⓓ (0 , −5)

3 The point .... lies on the y-axis.

ⓐ (0 , 3) ⓑ (−1, −4) ⓒ (−5 , 0) ⓓ (5 , −5)

4 If the point (x , −4) lies in the 3rd quadrant, then the value of x is ....

ⓐ 7 ⓑ −1 ⓒ 2 ⓓ 5

5 The image of the point (4 , −3) by reflection on x-axis is ....

ⓐ (4 , −3) ⓑ (−4 , −3) ⓒ (4 , 3) ⓓ (−4 , 3)

6 If the point (x , 6) lies in the 1st quadrant, then the value of x is ....

ⓐ −7 ⓑ −1 ⓒ −2 ⓓ 5

7 The point (−8 , 3) lies in ....

ⓐ 1st quadrant ⓑ 2nd quadrant ⓒ 3rd quadrant ⓓ 4th quadrant

8 The image of the point (0 , 7) by reflection on the y-axis is ....

ⓐ (0 , −7) ⓑ (0 , 0) ⓒ (7 , 0) ⓓ itself

9 If the point A (- 3 , 5) moved 1 unit to the right then 2 units downward, then A will be ....

ⓐ (−4 , 7) ⓑ (−2 , 3) ⓒ (−2 , −3) ⓓ (2 , −3)

10 If the x-coordinate of a point is zero, then th is point lies ....

ⓐ in 1st quadrant ⓑ in 3rd quadrant ⓒ on x-axis ⓓ on y-axis

11 If the y-coordinate of a point is zero, then th is point lies ....

ⓐ in 1st quadrant ⓑ in 3rd quadrant ⓒ on x-axis ⓓ on y-axis

12 If the image of a point by reflection on the y-axis is (− 3 , 4), then the point is ....

ⓐ (4 , −3) ⓑ (3 , 4) ⓒ (−3 , −4) ⓓ (−4 , 3)

13 Point C (−5 , −3) lies on the .... quadrant.

ⓐ first ⓑ second ⓒ third ⓓ fourth








MR.AHMED NASSR
TEL: 01003780857

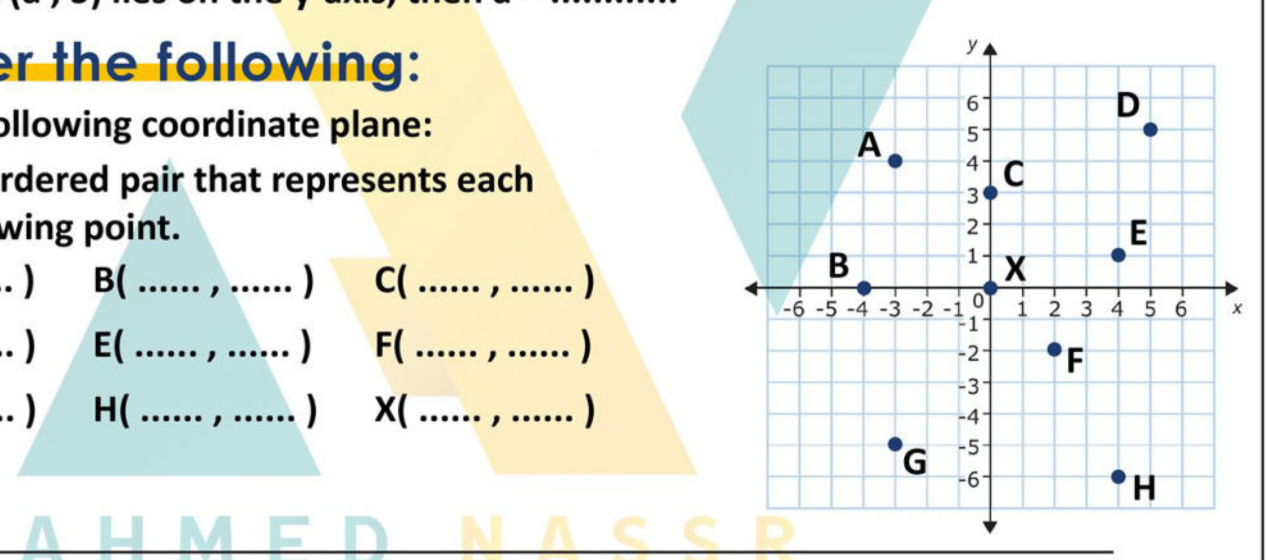


Q2: Complete the following:

1. The point (−9 , −2) lies on the .... quadrant.
2. The coordinate plane is separated into .... quadrants.
3. The image of point (7 , −2) by reflection on .... is (−7 , −2).
4. The image of the point (0 , −1) by reflection on the y-axis is ....
5. Point C (0 , 3) lies on ....-axis.
6. The image of the point (4 , 3) by reflection on .... is (4 , −3).
7. The x-coordinate of any point that lies on the y-axis is ....
8. The y-coordinate of any point that lies on the x-axis is ....
9. The point (4 , 7) by reflection across the x-axis is the point ....
10. The point C (a , 5) lies on the y-axis, then a = ...

Q3: Answer the following:

1. Using the following coordinate plane:
   Write the ordered pair that represents each of the following point.



A(...... , ...) B(...... , ...) C(...... , ...)

D(...... , ...) E(...... , ...) F(...... , ...)

G(...... , ...) H(...... , ...) X(...... , ...)

2. Determine which quadrant you can plot the ordered pair in:

A] (2 , 5) ⟶ .... B] (−1 , 2) ⟶ .... C] (1 , −5) ⟶ ....

D] (4 , −3) ⟶ .... E] (−7 , −1) ⟶ .... F] (5 , 5) ⟶ ....

3. Points D and K are images of each other by reflection across the y-axis.
   Give the coordinates of point K if the coordinates of point D are the following :

A] (8 , 1) ⟶ .... B] (−1 , 1) ⟶ .... C] (−1 , −5) ⟶ ....

D] (0 , −5) ⟶ .... E] (4 , −4) ⟶ .... F] (−7 , 0) ⟶ ....

MR.AHMED NASSR
TEL: 01003780857

Q1: Choose the correct answer:

1 Murad spends 24 pounds in 6 days, then he will spend .... LE in 10 days.

ⓐ 240 ⓑ 60 ⓒ 40 ⓓ 30

2 Mazen studies 21 pages in 6 hours, then the unit rate of his study is .... pages/hour.

ⓐ 5 ⓑ 4 ⓒ 3.5 ⓓ 5.5

3 45 L.E for 5kg of tomatos, then the cost of 20 kg of tomatos is .... L.E

ⓐ 45 ⓑ 90 ⓒ 180 ⓓ 200

4 By using the opposite double number line the unit rate is ....

0 — 44 km
0 — 4 hours

ⓐ 4 km per hour ⓑ 11 km per hour

ⓒ 1 hour per 4 km ⓓ 10 km per hour

5 120 m per min = ... cm per sec

ⓐ 12000 ⓑ 200 ⓒ 720 ⓓ 1200

6 1 day: 24 hours is considered a/an ....

ⓐ unit ratio ⓑ equivalent ratio ⓒ conversion factor ⓓ otherwise

7 180 minutes = ... hours

ⓐ 2 ⓑ 3 ⓒ 4 ⓓ 5

8 360 sec = ... hour

ⓐ 60 ⓑ 10 ⓒ 3600 ⓓ 0.1

9 2.3 pounds = ... piasters

ⓐ 2300 ⓑ 230 ⓒ 23 ⓓ 2.3

10 5200 dm = ... km

ⓐ 52 ⓑ 5.2 ⓒ 0.52 ⓓ 0.052

11 $4.8\text{ L} \times \frac{\dots\dots}{\dots\dots} = 4800\text{ mL}$

ⓐ $\frac{100\text{ mL}}{1\text{ L}}$ ⓑ $\frac{1{,}000\text{ L}}{1\text{ mL}}$ ⓒ $\frac{1{,}000\text{ mL}}{1\text{ L}}$ ⓓ $\frac{1\text{L}}{1{,}000\text{ mL}}$

12 .... gm = 60 kg

ⓐ 0.06 ⓑ 6,000 ⓒ 600 ⓓ 60,000

MR.AHMED NASSR
TEL: 01003780857

13 Which of the following is a unit rate ?

(a) 40 LE per 2 kg (b) 450 km per 3 hours
(c) 2 liters per bottle (d) 4 spoons of sugar per 2 cups

14 280 cm / sec = ... m/min

(a) 140 (b) 168 (c) 280 (d) 28

15 If the percentage of success in a school is 76 %, then the percentage of failures is ..... %

(a) 24 (b) 44 (c) 67 (d) 90

16 1 – 75% = ...

(a) 74% (b) 0.25 (c) 25 (d) 2.5

17 225% = ...

(a) $1\frac{25}{100}$ (b) $2\frac{25}{200}$ (c) $2\frac{1}{4}$ (d) 0.225

18 $\frac{3}{6}$ = ... %

(a) 30 (b) 25 (c) 50 (d) 60

19 49 % = ...

(a) $\frac{4.9}{100}$ (b) 49 (c) 0.49 (d) 4900

20 35% of 160 = ...

(a) $\frac{56}{100}$ (b) 56 (c) 5.6 (d) 560

21 5% of .... = 5

(a) 25 (b) 50 (c) 100 (d) 125

22 Farida ate 45 % of a pizza, so she ate .... half the pizza.

(a) exactly (b) more than (c) less than (d) otherwise

23 45 % of a litre = ... mL

(a) 450 (b) 4500 (c) 45 (d) 0.45

24 5% of .... LE = 120 LE

(a) 240 (b) 2400 (c) 1200 (d) 120

25 If 100% of a number is 80, what is 50% of this number?

(a) 0.4 (b) 4 (c) 40 (d) 400

26 If the original price of a dress is 1,700 LE, then its sale price after apply a discount 20% is ....

(a) 1360 (b) 340 (c) 170 (d) 17

27 30% of a number equals..............

(a) its third
(b) its three tenths
(c) its three fifths
(d) its three sevenths

28 20% of a number = ... % of half the same number

(a) 10 (b) 20 (c) 30 (d) 40

29 1 – 1% = ... %

(a) zero (b) 2 (c) 99 (d) 1

30 The percentage of 4 squares of 400 squares is .... %.

(a) 4 (b) 1 (c) 0.01 (d) 0.1

Q2: Complete the following:

1 A motorcycle covers 160 km in 4 hours, then the rate of speed is ..60.. km/hr.

2 A rabbit jumps 3 leaps in 1 meter, then it will jump ..45.. leaps in 15 meters.

3 A factory produces 1,800 cans of soda every 6 hours, then in 15 hours it will produce ..4500.. cans of soda.

4 If there are 81 litres of water in 18 bottles, then there ..27.. litres in 6 bottles

5 280 gram/sec = ...16.8.......... = ...kg/min

6 24 cm per second = ...14.4.......... = ... meter/minute

7 45 m/min = ...2.7.......... = ... km/hr

8 71,500 cm = ...0.715.... km

9 $\frac{23}{25}$ = ..92.. %

10 2.15 = ..215.. %

11 There are 60 students in a class. If the percentage of girls is 40%, then the number of boys is ..36..

12 If 10% of a number is 36, then the number is ..360..

13 Belal scored 570 marks out of 600. Then the percentage of marks scored is ..96%..

14 If there are 50 students in class and 96% of them passed, then the students who failed the test are ..2.. students.

MR.AHMED NASSR
TEL: 01003780857

Q3: Answer the following:

1 Ahmed drove 240 km in 2 hours.
Draw a tape diagram to represent the rate.
A] Find the rate of speed at which Amr drives. 120 km/hr
B] How many kilometers do Amr cover when he drive for 7 hours? 840 km

km	
120	120
1	1
hour	

2 A machine produces 240 m of cloth every 8 hours. Draw the rate of production using a double line.
Then find the unit rate of production per one hour.

0	30	60	90	120	150	180	210	240
0	1	2	3	4	5	6	7	8

30 m/hr

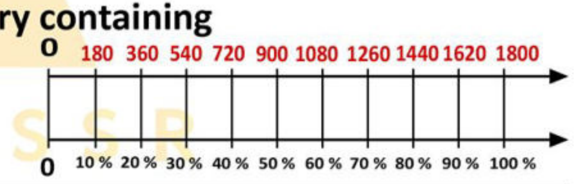
3 An athlete runs at a constant speed of 8 m/sec, Calculate his average speed in kilometers per hour........28.8 km/hr........

4 There's a dog running at a constant speed of 48 km/hr, convert its speed into meters/min........800 meter/min........

5 If the percentage of students who succeeded in the science exam is 87%, Find percentage of students who failed........13%........

6 In a survey of 80 people, if the percentage of people who chose Al-Ahly Club as their favorite club is 80%.
Find the number of people who don't choose Al-Ahly Club. 16

7 If there are 40% of math books in a school library containing 1,800 books in total,
Find the number of math books in the library. 720



8 A piece of cloth, 20 meters long, was put in water, it shrank by 4%.
What is the length after shrinking? ....19.2........

9 A laptop that costs 24,500 LE is 20% off. What is the sale price? 19600 L.E

10 If the original price of a meal is 460 LE, if there's a tax of 15%,
Calculate the price of the meal after adding tax........529 L.E........

11 If the price of jeans is 720 L.E, if there's 35% percent off,
Calculate the price of two jeans. 936 L.E

Q1: Choose the correct answer:

1 Which of the following lies in the 2nd quadrant?

a (2 , 7) b (5 , − 3) c (−5 , −9) **d (−1 , 5)**

2 The point .... lies on the x-axis.

a (0 , 3) b (−1, −4) **c (−5 , 0)** d (0 , −5)

3 The point .... lies on the y-axis.

a (0 , 3) b (−1, −4) c (−5 , 0) d (5 , −5)

4 If the point (x , −4) lies in the 3rd quadrant, then the value of x is ....

a 7 **b −1** c 2 d 5

5 The image of the point (4 , −3) by reflection on x-axis is ....

a (4 , −3) b (−4 , −3) **c (4 , 3)** d (−4 , 3)

6 If the point (x , 6) lies in the 1st quadrant, then the value of x is ....

a −7 b −1 c −2 **d 5**

7 The point (−8 , 3) lies in ....

a 1st quadrant **b 2nd quadrant** c 3rd quadrant d 4th quadrant

8 The image of the point (0 , 7) by reflection on the y-axis is ....

a (0 , −7) b (0 , 0) c (7 , 0) **d itself**

9 If the point A (- 3 , 5) moved 1 unit to the right then 2 units downward, then A will be ....

a (−4 , 7) **b (−2 , 3)** c (−2 , −3) d (2 , −3)

10 If the x-coordinate of a point is zero, then th is point lies ....

a in 1st quadrant b in 3rd quadrant c on x-axis **d on y-axis**

11 If the y-coordinate of a point is zero, then th is point lies ....

a in 1st quadrant b in 3rd quadrant **c on x-axis** d on y-axis

12 If the image of a point by reflection on the y-axis is (− 3 , 4), then the point is ....

a (4 , −3) **b (3 , 4)** c (−3 , −4) d (−4 , 3)

13 Point C (−5 , −3) lies on the .... quadrant.

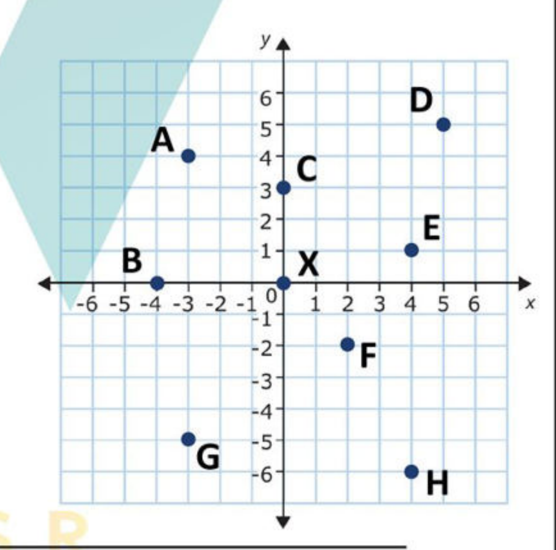
a first b second **c third** d fourth

Q2: Complete the following:

1. The point (−9 , −2) lies on the ...third... quadrant.
2. The coordinate plane is separated into ...four... quadrants.
3. The image of point (7 , −2) by reflection on ...y-axis... is (−7 , −2).
4. The image of the point (0 , −1) by reflection on the y-axis is ...itself... .
5. Point C (0 , 3) lies on ...y...-axis.
6. The image of the point (4 , 3) by reflection on ...x-axis... is (4 , −3).
7. The x-coordinate of any point that lies on the y-axis is ...zero... .
8. The y-coordinate of any point that lies on the x-axis is ...zero... .
9. The point (4 , 7) by reflection across the x-axis is the point ...(4 , −7)...
10. The point C (a , 5) lies on the y-axis, then a = ...zero...

Q3: Answer the following:

1. Using the following coordinate plane:
   Write the ordered pair that represents each of the following point.



A(−3 , 4) B(−4 , 0) C(0 , 3)
D(5 , 5) E(4 , 1) F(2 , −2)
G(−3 , −5) H(4 , −6) X(0 , 0)

2. Determine which quadrant you can plot the ordered pair in:
   A] (2 , 5) ⟶ First   B] (−1 , 2) ⟶ second   C] (1 , −5) ⟶ Fourth
   D] (4 , −3) ⟶ Fourth   E] (−7 , −1) ⟶ third   F] (5 , 5) ⟶ First

3. Points D and K are images of each other by reflection across the y-axis.
   Give the coordinates of point K if the coordinates of point D are the following :
   A] (8 , 1) ⟶ (−8 , 1)   B] (−1 , 1) ⟶ (1 , 1)   C] (−1 , −5) ⟶ (1 , −5)
   D] (0 , −5) ⟶ (0 , −5)   E] (4 , −4) ⟶ (−4 , −4)   F] (−7 , 0) ⟶ (7 , 0)

Unit 10

Choose the correct answer

1. Which of the following is a unit rate ?
   A. 60 sec per min
   B. 6 kg per 3 liters
   C. 2 km per 60 min
   D. 16 grams per a cup

2. Which of the following is NOT a unit rate ?
   A. 140 L.E. weekly
   B. 90 km per 60 minutes
   C. $\frac{1}{5}$ kg of flour per cupcake
   D. 25 L.E. for each kg

3. Which of the following is a conversion factor ?
   A. $\frac{4 \text{ km}}{1 \text{ hour}}$
   B. $\frac{60 \text{ min}}{1 \text{ sec}}$
   C. $\frac{1 \text{ week}}{7 \text{ days}}$
   D. $\frac{1{,}000 \text{ cm}}{1 \text{ km}}$

4. Which of the following is not a conversion factor ?
   A. $\frac{60 \text{ min}}{1 \text{ sec}}$
   B. $\frac{1{,}000 \text{ m}}{1 \text{ km}}$
   C. $\frac{1 \text{ L}}{1{,}000 \text{ mL}}$
   D. $\frac{1 \text{ day}}{24 \text{ hours}}$

5. To convert from hr. to min. the conversion factor is ....
   A. $\frac{1 \text{ hr.}}{60 \text{ min.}}$
   B. $\frac{60 \text{ hr.}}{1 \text{ min.}}$
   C. $\frac{60 \text{ min.}}{1 \text{ hr.}}$
   D. $\frac{1 \text{ min.}}{60 \text{ hr.}}$

6. $\frac{1 \text{ m}}{\text{..........}}$ is NOT a conversion factor.
   A. 100 cm
   B. 1,000 mm
   C. 0.001 km
   D. 60 min

7. $\frac{1 \text{ km}}{\text{..........}}$ is a conversion factor.
   A. 2 hours
   B. 100 cm
   C. 1,000 km
   D. 1,000 m

8. $\frac{\text{..........}}{3600 \text{ sec.}}$ is a conversion factor.
   A. 1 min
   B. 1 sec
   C. 1 hr.
   D. 60 min.

9. 150 km per 3 hr = ... km per hr
   A. 450
   B. 200
   C. 250
   D. 50

Unit 10

Choose the correct answer

10 A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers ______ km per liter.

A. 10 B. 20 C. 5 D. 1

11 If 20 cups of flour uses to make 5 pizzas , then ______ pizza per a cup of flour.

A. 100 B. 4 C. $\frac{1}{5}$ D. $\frac{1}{4}$

12 Which of the following is the best price ?

A. 25 L.E. for 5 kg B. 6 kg for 36 L.E. C. $\frac{1}{3}$ kg per L.E. D. 4 L.E. per kg

13 From the opposite tape diagram, the unit rate of the printer is ______ papers per min



A. 250 B. 50
C. 10 D. 25

14 The unit rate from the opposite tape diagram is ______



A. 20 days per km B. 120 km per 6 days
C. 6 days per 120 km D. 20 km per day

15 0.25 kg = ______ gm

A. 25 B. 250 C. 2,500 D. 25,000

16 ______ gm = 30 kg

A. 0.03 B. 3,000 C. 300 D. 30,000

17 256 cm = ______ m

A. 25600 B. 25.6 C. 2560 D. 2.56

18 360 sec = ______ hour(s)

A. 60 B. 10 C. 3,600 D. 0.1

19 2.5 liters ☐ 205 millilitres

A. < B. = C. >

Choose the correct answer

20. 3.5 cm ☐ 25 mm

A. >   B. <   C. =

21. 4.8 L × ______ = 4,800 mL

A. $\frac{100 \text{ mL}}{1 \text{ L}}$ B. $\frac{1{,}000 \text{ L}}{1 \text{ mL}}$ C. $\frac{1{,}000 \text{ mL}}{1 \text{ L}}$ D. $\frac{1 \text{ L}}{1{,}000 \text{ mL}}$

22. 60 meters per hour = ______ meter(s) per min.

A. 3,600   B. 120   C. 360   D. 1

23. 180 km per hour = ______ m per min.

A. 3   B. 30   C. 300   D. 3,000

24. 120 m per min = ______ cm per sec.

A. 200   B. 720   C. 1,200   D. 12,000

25. Which value is NOT equivalent to 45 %?

A. 0.45   B. $\frac{9}{20}$ C. $\frac{45}{100}$ D. 4.5

26. 5 to 10 = ______ %

A. 50   B. 5   C. 0.5   D. 20

27. $1\frac{3}{5}$ = ______ %

A. 1.6   B. 60   C. 160   D. 16

28. 45 % + 0.55 = ______

A. 1 %   B. 100   C. 1   D. 0.1

29. 1 – 25 % = ______

A. 75   B. 7.5   C. 0.75   D. 24

30. 1 – (20% + 35%) = ______

A. 45   B. 4.5%   C. $\frac{9}{20}$ D. 0.045

Choose the correct answer

31. If $\frac{x}{5} = 20\%$, then x = ...
A. 2 B. 1 C. 4 D. 5

32. If $\frac{x+1}{4} = 25\%$, then x = ...
A. 1 B. 2 C. 3 D. 0

33. 65% of 44 [......] 44% of 65
A. < B. > C. =

34. 55 % [ ] $\frac{2}{5}$
A. < B. = C. >

35. $\frac{1}{8}$ ◯ 8%
A. > B. < C. =

36. If the price of a ball is 120 L.E. , then 10 % of its price is .... L.E.
A. 1.2 B. 12 C. 0.12 D. 0.012

37. If the price of a watch is 350 L.E. , then 1 % of its price is .... L.E.
A. 3.5 B. 35 C. 0.35 D. 0.035

38. If the price of a shirt is 200 L.E. , then $\frac{1}{2}$ % of its price = ... L.E.
A. 2 B. 10 C. 1 D. 0.5

39. 2.5 % of 700 L.E. = ... L.E.
A. $\frac{2}{5}$ B. 70 C. 175 D. 17.5

40. 30% of 50 kg. = ... kg.
A. 5 B. 10 C. 15 D. 20

41. 45 % of a kilometre = ... m
A. 450 B. 4500 C. 45 D. 0.45

Choose the correct answer

42 20% of the students in a class are wearing black. There are 40 students in the class. How many students are wearing black ?

A. 4 B. 8 C. 12 D. 16

43 20% of pupils in the class = 5 pupils , then the total number of pupils in the class = ______

A. 20 B. 50 C. 100 D. 25

44 25% of a number = 120, then this number = ______

A. 30 B. 2.5 C. 480 D. 360

45 10 % of ______ kg = 12 kg

A. 1.2 B. 0.12 C. 120 D. 1,200

46 ______ % of 240 = 60

A. $\frac{1}{4}$ B. 0.25 C. 2.5 D. 25

47 If the percent of boys in a school is 52 % , then the percent of girls is ______ %

A. 52 B. 48 C. 0.48 D. 0.52

48 40 % of a number = ______ % of half of the same number.

A. 10 B. 20 C. 80 D. 100

49 25 % of 1000 = 50 % of ______

A. 2000 B. 1500 C. 1250 D. 500

50 If the price of a shirt is 280 L.E. before discount 10% then the discount is ______ L.E.

A. 2.8 B. 28 C. 252 D. 270

51 From the opposite table , the value of unknown = ______

Whole	Part	Percent
Unknown	120	40 %

A. 30 B. 480
C. 300 D. 120

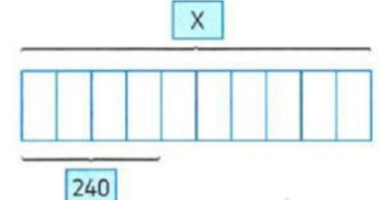
Choose the correct answer

52 From the opposite tape diagram,

x = ...

A. 60　　B. 240

C. 400　　D. 600

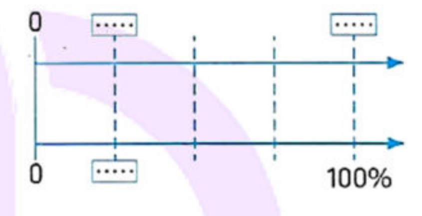


53 From the opposite double number line

, x = ...

A. 70　　B. 140

C. 210　　D. 420

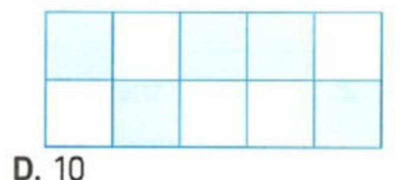


54 From the opposite double number line ,

25 % of 80 = ...

A. 25　　B. 20

C. 40　　D. 60



55 **From the opposite figure :**

The percentage of the shaded part to whole figure = ... %

A. 5　　B. 0.5　　C. 50　　D. 10

56 From the opposite 10 × 10 grid :

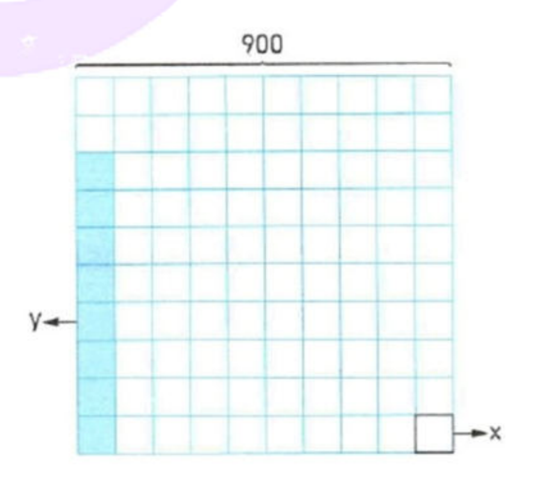
y – x = ...

A. 9

B. 54

C. 63

D. 72



Unit 10

Complete the following

1. A car consumes 20 liters per 200 km, then its unit rate is .... km per liter.
2. $2\frac{1}{4}$ days = ... hours.
3. 2.5 hr = ... min
4. .... kg = 20 grams.
5. 200 m × $\frac{\ldots}{\ldots}$ = 0.2 km
6. 10 L.E. for each kg, then .... kg per L.E.
7. 15 km per hr = ... km per min
8. .... km per hour = 10 meters per min
9. 25 km per hour = ... meters per hour.
10. 60 meters per min = ... meter(s) per sec.
11. 48 kg per day = ... kg per hour
12. 1.23 = ... %
13. 20 % + 50 % = ...
14. 20 % + 40 % + 40 % = ...
15. 40 % + 0.42 = ... %
16. 25 % ÷ $\frac{1}{4}$ = ... %
17. 35 % ÷ $\frac{7}{20}$ = ... %
18. 32 % = 1 – .... %
19. 1 – ($\frac{1}{2}$ + 30 %) = ... %
20. 1 – (20 % + 35 %) = ...
21. 50% + $\frac{1}{2}$ = ...
22. $\frac{x}{4}$ = 25%, then x = ...
23. $\frac{x+1}{10}$ = 30 %
24. If $\frac{2}{x-1}$ = 50 %, then x = ...
25. .... % of 600 L.E. = 120 L.E.
26. 25 % of 1,000 = 50 % of ....

Complete the following

27) $33\frac{1}{3}$ % of 60 = ...

28) 5 % of 600 kg = ... kg

29) 45 % of one kilometer = ... m

30) 2.5 % of one kilogram = ... grams.

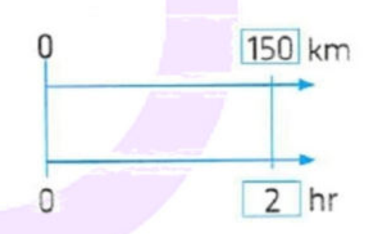
31) $\frac{1}{2}$ % of 1 kg = ... gram

32) 20% of .... = 15

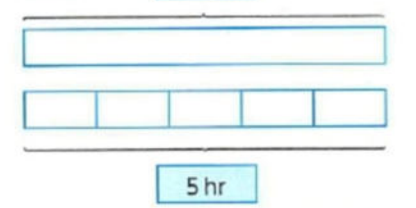
33) If the price of a T.V set is 18,000 L.E., then 1% of its price = ... L.E.

34) A store offer a discount 20% on a shirt of price 400 L.E., then its price after discount = ... L.E.

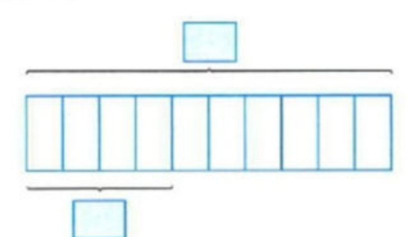
35) From the opposite double number line, the unit rate is ....



36) From the opposite tape diagram, the unit rate is ....



37) If 40% of a number is 140 find that number by using the opposite tape diagram.



Unit 10

Answer the following

1. If the height of the Great Pyramid is approximately 14600 centimeters.
   About how many meters tall is the Great Pyramid ?

2. On most summer days, camels drink about 20,000 milliliters of water.
   How many liters of water is that ? Show your calculations.

3. Two machines produce cloth , the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours.
   Which machine is better ?

4. **Which is best to buy ?**
   1. 15 kg per 30 L.E. **2.** 12.5 L.E. per 5 kg

5. A speed of a car is 2500 cm per sec. convert its speed to km per hr.

6. An employee saves L.E. 600 monthly. If his monthly income is L.E. 3,000
   Find the percentage of what he saves monthly.

7. There are 250 pupils in a school , 15 pupils of them were absent one day.
   Find the percentage of absentees on that day.

8. The number of pupils in a school is 720. One day , 7.5 % of them were absent.
   Find the number of the present pupils that day.

9. In a maths exam, Yasser got 80% and Fayez got 45 marks out of 60 which of them has got a better score. **What is the difference between their scores ?**

10. Wael bought a flat for 360,000 L.E. , he paid 30% of its price.
    How much money did he pay ?

11. A man bought a T.V. set. He was given a 15 % discount of its marked price which was 8,500 L.E.
    Find its price after discount.

Answer the following

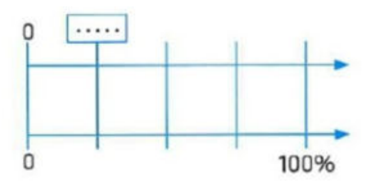
12 The price of a T.V. set is 16,000 L.E. and the sales tax on the T.V. set is 12 %
What is the price of the T.V set after adding the tax ?

13 A piece of cloth of 10 meters long , was put in water. It shrunk by 4 %
What is the length after shrinking ?

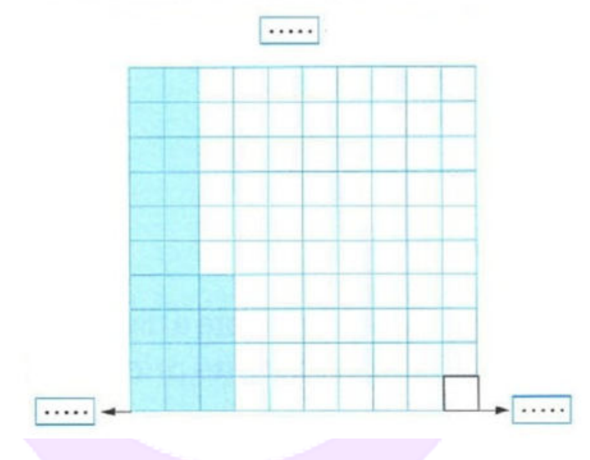
14 If a man deposited 20,000 pounds in a bank with interest 20 % per year.
Find the total amount which he gets at the end of one year.

15 **Find the value of each of the following by using the given model.**

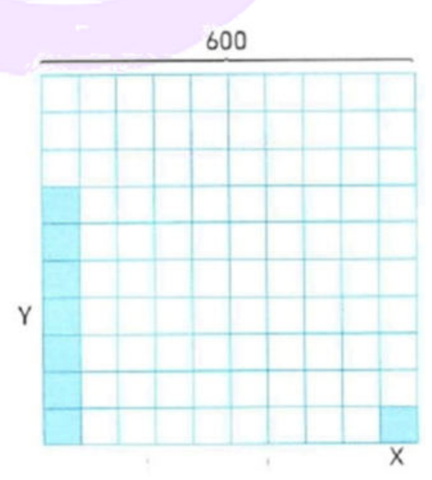
1. 25 % of 80



2. 24 % of a number is 72



16 From the opposite 10 × 10 grid ,
Find : X + Y



The Answers

Choose the correct answer:

1. D	2. B	3. C	4. A	5. C
6. D	7. D	8. C	9. D	10. A
11. D	12. C	13. C	14. D	15. B
16. D	17. D	18. D	19. C	20. A
21. C	22. D	23. D	24. A	25. D
26. A	27. C	28. C	29. C	30. C
31. B	32. D	33. C	34. C	35. A
36. B	37. A	38. C	39. D	40. C
41. A	42. B	43. D	44. C	45. C
46. D	47. B	48. C	49. D	50. B
51. C	52. D	53. C	54. B	55. C
56. C				

Complete the following:

1) 10	2) 54	3) 150	4) 0.02
5) $\frac{1km}{1000m}$	6) $\frac{1}{10}$	7) 0.25	8) 0.6
9) 25,000	10) 1	11) 2	12) 123
13) 70% = 0.7	14) 100% = 1	15) 82%	16) 1 = 100%

The Answers

Complete the following:

17) 1 = 100%
18) 68%
19) 20%
20) 0.45
21) 1
22) 1
23) 2
24) 5
25) 20%
26) 500
27) 20
28) 30
29) 450
30) 25
31) 5
32) 75
33) 180
34) 320
35) 75 per hr
36) 80 km per hr
37) 140 ÷ 4 = 35

the number = 35 x 10 = 350

Answer the following:

1) 14600 ÷ 100 = 146 meter

2) 20,000 ÷ 1000 = 20 L

3) unit rate of first machine = 365 ÷ 5 = 73 m per hr

unit rate of first machine = 480 ÷ 6 = 80 m per hr

the second is better

4) first = 30 ÷ 15 = 2 LE per Kg

second =12.5 ÷ 5 = 2.5 LE per Kg

first is better

The Answers

5) $\frac{2500\text{ cm}}{1\text{ sec}} \times \frac{1\text{k}}{100{,}000\text{ cm}} \times \frac{3600\text{ sec}}{1\text{hr}} = 90$ km per hr

6) the percentage of saving = $\frac{600}{3000} \times 100 = 20\ \%$

7) the percentage of absentees = $\frac{15}{250} \times 100 = 6\%$

8) the number of absent = 720 X 7.5% = 54 pupils

the number of present = 720 - 54 = 666 pupils

9) Yasser got 60 x 80% = 48 marks

the better score is Yasser

the difference = 48-45 = 3 marks

10) he paid = 360,000 x 30% = 108,000 LE

11) the discount = 8,500 x 15% = 1275 LE

the price after discount = 8,500 – 1,275 = 7,225 LE

12) the tax = 16,000 x 12% = 1,920 LE

the price after tax = 16,000 + 1,920 = 17,920 LE

13) the shrinking = 10 x 4% = 0.4 m

the length after shrinking = 10 – 0.4 = 9.6 m

The Answers

14) the interest = 20,000 x 20% = 4000 LE

the total = 20,000 + 4,000 = 24,000 LE

15) 1. part = 20

2. the part = 72 one part = 72 ÷ 24 = 3

the total = 3 x 100 = 300

16) X = 6 , Y = 6 x 7 = 42 X+Y = 6 + 42 = 48

1 Choose the correct answer.

(1) Which of the following is a unit rate?

Ⓐ 20 L.E per 2 kg.
Ⓑ 105 km per 3 hours.
Ⓒ 3 liters per one bottle.
Ⓓ 8 spoons of sugar for 4 cups of tea.

(2) Which of the following is not unit rate?

Ⓐ 140 L.E weekly.
Ⓑ 90 km per 60 minutes.
Ⓒ 25 L.E. for each kg.
Ⓓ $\frac{1}{2}$ kg of flour per a cake.

(3) 30 L.E. for 5 kg, then the cost of 30 kg is ………… L.E.

Ⓐ 5　Ⓑ 30　Ⓒ 90　Ⓓ 180

(4) By using the opposite ratio table,
the unit rate is ………… kg per L.E.

Kg	1	5
L.E	……	30

Ⓐ 5　Ⓑ $\frac{1}{5}$　Ⓒ 6　Ⓓ $\frac{1}{6}$

(5) The missing numbers in the opposite ratio table are …………

Kg	1	2	3	4
L.E	……	……	……	200

Ⓐ 40,80,120
Ⓑ 50,100,150
Ⓒ 45,90,135
Ⓓ 60,120,180

(6) By using the opposite double number line, the unit rate is …………



Ⓐ 40 kg per day.
Ⓑ 60 kg per 2 days.
Ⓒ 30 kg per day.
Ⓓ 100 kg per 3 days.

(7) 150 km per 3 hr. ………… km per hr.

Ⓐ 450　Ⓑ 200　Ⓒ 250　Ⓓ 50

(8) Which of the following is a conversion factor?

Ⓐ $\frac{3\text{ km}}{1\text{ hr}}$　Ⓑ $\frac{60\text{ min}}{1\text{ sec}}$　Ⓒ $\frac{7\text{ days}}{1\text{ week}}$　Ⓓ $\frac{1\text{ km}}{1000\text{ cm}}$

(9) Which of the following is a conversion factor?

Ⓐ $100\text{ m} = 1\text{ km}$ Ⓑ $\frac{20\text{ cm}}{5\text{ m}}$ Ⓒ $\frac{1\text{ m}}{100\text{ cm}}$ Ⓓ $\frac{3\text{ m}}{10\text{ m}}$

(10) Which of the following is NOT a conversion factor?

Ⓐ $1\text{hr} = 3600\text{ sec}$ Ⓑ 12 month : 1 year.

Ⓒ $1000\text{ mm} = 1$ litre. Ⓓ $\frac{1\text{ min}}{60\text{ sec}}$

(11) $\frac{1\text{ km}}{\dots\dots}$ is a conversion factor?

Ⓐ 1 hr. Ⓑ 1000 m. Ⓒ 100 m. Ⓓ 10000 mm.

(12) $\frac{1\text{ hr}}{\dots\dots}$ is a conversion factor?

Ⓐ 60 min. Ⓑ 1 sec. Ⓒ 1 min. Ⓓ 60 sec.

(13) $\frac{\dots\dots\dots}{3600\text{ sec}}$ is a conversion factor.

Ⓐ 1 min Ⓑ 1 sec Ⓒ 1 hr Ⓓ 60 min

(14) $\frac{60\text{ km}}{1\text{ hr}} \times \frac{\dots\dots\dots}{\dots\dots\dots} = \frac{60000\text{ m}}{1\text{ hr}}$

Ⓐ $\frac{1\text{ km}}{1000\text{ m}}$ Ⓑ $\frac{1000\text{ km}}{1\text{ m}}$ Ⓒ $\frac{1\text{ m}}{1000\text{ km}}$ Ⓓ $\frac{1000\text{ m}}{1\text{ km}}$

(15) $3.6\text{ L} \times \frac{\dots\dots\dots}{\dots\dots\dots} = 3600\text{ ml}$

Ⓐ $\frac{1000\text{ L}}{1\text{ mL}}$ Ⓑ $\frac{100\text{ mL}}{1\text{ L}}$ Ⓒ $\frac{1000\text{ mL}}{1\text{L}}$ Ⓓ $\frac{1\text{ L}}{1000\text{ mL}}$

(16) The conversion factor to convert the speed from m per min to km per hr. is …………

Ⓐ $\frac{60\text{ min}}{1\text{ hr}}$ Ⓑ $\frac{1\text{ km}}{1000\text{ m}}$

Ⓒ $\frac{1\text{ hr}}{60\text{ min}} \times \frac{1\text{ km}}{1000\text{ m}}$ Ⓓ $\frac{1\text{ km}}{1000\text{ m}} \times \frac{60\text{ min}}{1\text{ hr}}$

(17) Which of the following is the best buy?

Ⓐ 25 L.E. for 5 kg. Ⓑ 6 kg for 36 L.E.

Ⓒ $\frac{1}{3}$ kg per L.E. Ⓓ 4 L.E. per kg.

(18) 120 m per min = ... cm per sec

Ⓐ 12000 Ⓑ 200 Ⓒ 720 Ⓓ 1200

(19) The following statement: " 25 km per sec. " represents ....

Ⓐ Unit rate Ⓑ Conversion factor Ⓒ Percentage Ⓓ Otherwise

(20) The following statement: " 1 km : 1000 m. " represents ....

Ⓐ Unit rate Ⓑ Conversion factor Ⓒ Percentage Ⓓ Otherwise

(21) 2 hr = ... min.

Ⓐ 30 Ⓑ 60 Ⓒ 120 Ⓓ 180

(22) 180 minutes = ... hr.

Ⓐ 60 Ⓑ 10 Ⓒ 3 Ⓓ 0.1

(23) 360 sec = ... hr.

Ⓐ 60 Ⓑ 10 Ⓒ 3600 Ⓓ 0.1

(24) $2\frac{1}{4}$ day = ... hr.

Ⓐ 54 Ⓑ 48 Ⓒ 2400 Ⓓ 24

(25) 256 cm =............ m

Ⓐ 25600 Ⓑ 25.6 Ⓒ 2560 Ⓓ 2.56

(26) .... gm = 30 kg.

Ⓐ 0.03 Ⓑ 3,000 Ⓒ 300 Ⓓ 30,000

(27) 25% of a number equals ....

Ⓐ The whole number. Ⓑ half of a number.

Ⓒ third of a number. Ⓓ quarter of a number.

(28) 50% of a number equals ....

Ⓐ The whole number. Ⓑ half of a number.

Ⓒ third of a number. Ⓓ quarter of a number.

(29) 30% of a number equals............

Ⓐ its third. Ⓑ its three tenths.

Ⓒ its three fifths. Ⓓ its three sevenths.

(30) $25\% = \cdots$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(31) $50\% = \cdots$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(32) $75\% = \cdots$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(33) $100\% = \cdots$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(34) $\frac{1}{4} = \cdots\%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(35) $\frac{1}{2} = \cdots\%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(36) $\frac{2}{4} = \cdots\%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(37) $\frac{3}{4} = \cdots\%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(38) $\frac{4}{4} = \cdots\%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(39) $1\frac{3}{4} = \cdots\%$

Ⓐ 25 Ⓑ 75 Ⓒ 125 Ⓓ 175

(40) $1\frac{1}{2} = \cdots\%$

Ⓐ 5 Ⓑ 150 Ⓒ $1\frac{1}{2}$ Ⓓ 1500

(41) $\frac{8}{20} = \cdots\%$

Ⓐ 40 Ⓑ 45 Ⓒ 60 Ⓓ 90

(42) $\frac{2}{8} = \cdots \%$

Ⓐ 35 Ⓑ 45 Ⓒ 12.5 Ⓓ 25

(43) $2.15 = \cdots \%$

Ⓐ 2.5 Ⓑ 2.15 Ⓒ 215 Ⓓ 0.215

(44) 3 : 12 = ... %

Ⓐ 3 Ⓑ 12 Ⓒ 25 Ⓓ 36

(45) 30% + 40% = ... %

Ⓐ 70 Ⓑ 7 Ⓒ 0.7 Ⓓ 0.07

(46) 30% + 40% = ...

Ⓐ 70 Ⓑ 7 Ⓒ 0.7 Ⓓ 0.07

(47) 24% ÷ 3% = ...

Ⓐ 6 Ⓑ 7 Ⓒ 8 Ⓓ 8%

(48) 1 - 25% = ...

Ⓐ $\frac{3}{4}$ Ⓑ $\frac{1}{4}$ Ⓒ $\frac{1}{8}$ Ⓓ $\frac{3}{8}$

(49) 1 - 75% = ...

Ⓐ 70% Ⓑ 0.25 Ⓒ 25 Ⓓ 2.5

(50) 1 - 1% = ... %

Ⓐ 0 Ⓑ 2 Ⓒ 99 Ⓓ 1

(51) The percentage of 4 squares of 400 squares is .... %

Ⓐ 1 Ⓑ 0.1 Ⓒ 0.01 Ⓓ 4

(52) Mr. Eslam ate 25% of a pizza, so he ate .... half the pizza.

Ⓐ exactly. Ⓑ more than. Ⓒ less than.

(53) Mr. Eslam ate 50% of a pizza, so he ate .... half the pizza.

Ⓐ exactly. Ⓑ more than. Ⓒ less than

(54) Mr. Eslam ate 75% of a pizza, so he ate .... half the pizza.

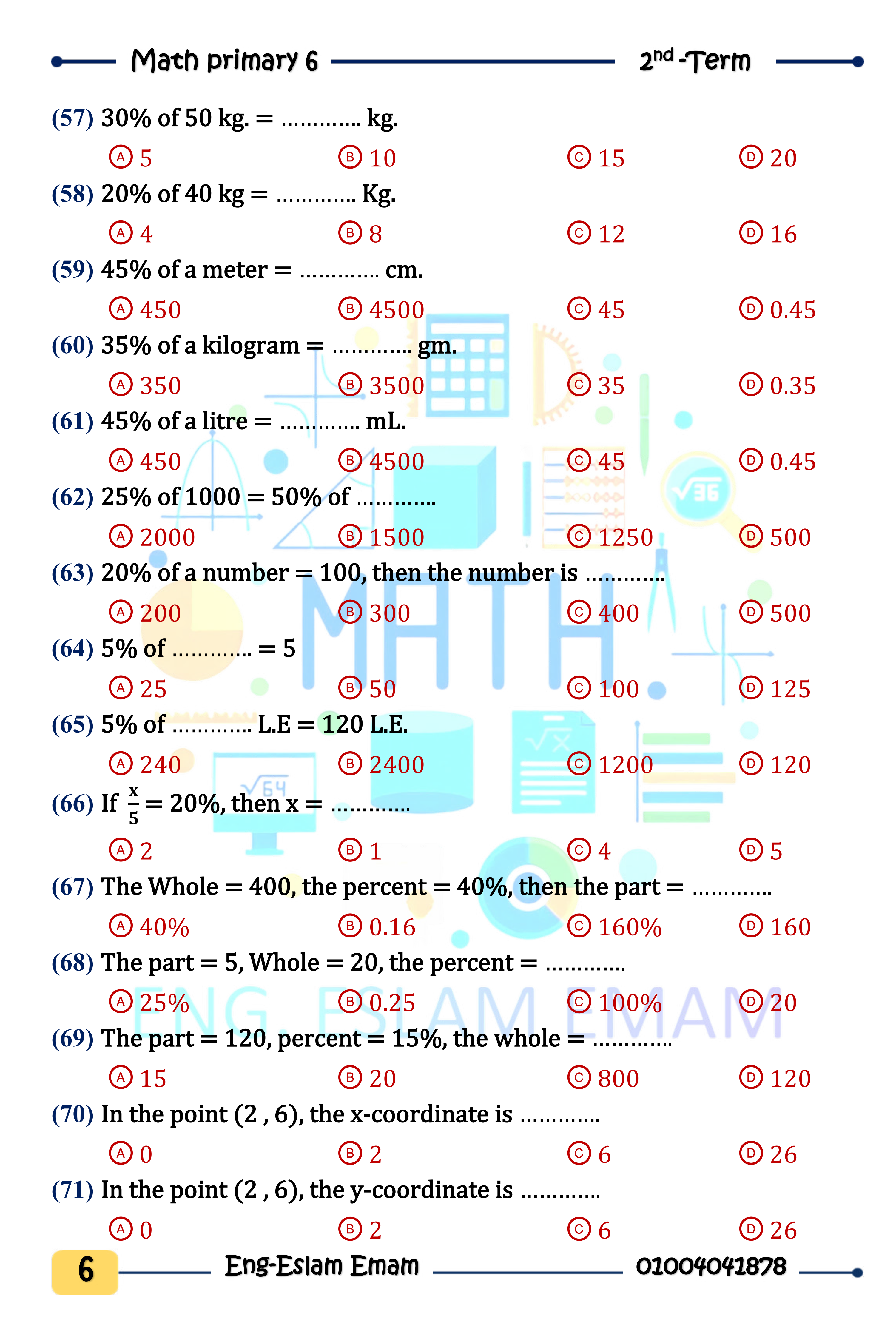
Ⓐ exactly. Ⓑ more than. Ⓒ less than

(55) If the percent of boys in a school is 62%, then the percent of girls is......%

Ⓐ 62 Ⓑ 48 Ⓒ 42 Ⓓ 38

(56) A class has 24 students, 50% of them succeded in the math exam, then the number of students succeded in the mathematics exam is............

Ⓐ 24 Ⓑ 18 Ⓒ 12 Ⓓ 6



(57) 30% of 50 kg. = ………… kg.

Ⓐ 5 Ⓑ 10 Ⓒ 15 Ⓓ 20

(58) 20% of 40 kg = ………… Kg.

Ⓐ 4 Ⓑ 8 Ⓒ 12 Ⓓ 16

(59) 45% of a meter = ………… cm.

Ⓐ 450 Ⓑ 4500 Ⓒ 45 Ⓓ 0.45

(60) 35% of a kilogram = ………… gm.

Ⓐ 350 Ⓑ 3500 Ⓒ 35 Ⓓ 0.35

(61) 45% of a litre = ………… mL.

Ⓐ 450 Ⓑ 4500 Ⓒ 45 Ⓓ 0.45

(62) 25% of 1000 = 50% of …………

Ⓐ 2000 Ⓑ 1500 Ⓒ 1250 Ⓓ 500

(63) 20% of a number = 100, then the number is …………

Ⓐ 200 Ⓑ 300 Ⓒ 400 Ⓓ 500

(64) 5% of ………… = 5

Ⓐ 25 Ⓑ 50 Ⓒ 100 Ⓓ 125

(65) 5% of ………… L.E = 120 L.E.

Ⓐ 240 Ⓑ 2400 Ⓒ 1200 Ⓓ 120

(66) If $\frac{x}{5}$ = 20%, then x = …………

Ⓐ 2 Ⓑ 1 Ⓒ 4 Ⓓ 5

(67) The Whole = 400, the percent = 40%, then the part = …………

Ⓐ 40% Ⓑ 0.16 Ⓒ 160% Ⓓ 160

(68) The part = 5, Whole = 20, the percent = …………

Ⓐ 25% Ⓑ 0.25 Ⓒ 100% Ⓓ 20

(69) The part = 120, percent = 15%, the whole = …………

Ⓐ 15 Ⓑ 20 Ⓒ 800 Ⓓ 120

(70) In the point (2 , 6), the x-coordinate is …………

Ⓐ 0 Ⓑ 2 Ⓒ 6 Ⓓ 26

(71) In the point (2 , 6), the y-coordinate is …………

Ⓐ 0 Ⓑ 2 Ⓒ 6 Ⓓ 26

(72) The coordinate plane is separated into ………… quadrants.

Ⓐ 1 Ⓑ 2 Ⓒ 3 Ⓓ 4

(73) The point (3 , 4) lies in …………quadrant.

Ⓐ 1^{st} Ⓑ 2^{nd} Ⓒ 3^{rd} Ⓓ 4^{th}

(74) The point (-3 , 4) lies in …………quadrant.

Ⓐ 1^{st} Ⓑ 2^{nd} Ⓒ 3^{rd} Ⓓ 4^{th}

(75) The point (-3 , - 4) lies in …………quadrant.

Ⓐ 1^{st} Ⓑ 2^{nd} Ⓒ 3^{rd} Ⓓ 4^{th}

(76) The point (3 , - 4) lies in………. quadrant.

Ⓐ 1^{st} Ⓑ 2^{nd} Ⓒ 3^{rd} Ⓓ 4^{th}

(77) Which of the following lies in the 1st quadrant?

Ⓐ (2 , 5) Ⓑ (2 , -5) Ⓒ (-2 , -5) Ⓓ (-2 , 5)

(78) Which of the following lies in the 2nd quadrant?

Ⓐ (2 , 5) Ⓑ (2 , -5) Ⓒ (-2 , -5) Ⓓ (-2 , 5)

(79) Which of the following lies in the 3rd quadrant?

Ⓐ (2 , 5) Ⓑ (2 , -5) Ⓒ (-2 , -5) Ⓓ (-2 , 5)

(80) Which of the following lies in the 4th quadrant?

Ⓐ (2 , 5) Ⓑ (2 , -5) Ⓒ (-2 , -5) Ⓓ (-2 , 5)

(81) If the point A (-2 , 3) moved 2 units to the right then 3 units downward, then A will be …………

Ⓐ (-2 , 0) Ⓑ (0 , -1) Ⓒ (1 , 1) Ⓓ (0 , 0)

(82) If the point (x , -3) lies in third quadrant, then the value of x is …………

Ⓐ 7 Ⓑ – 1 Ⓒ 2 Ⓓ 5

(83) A point both of whose coordinates are positive will lie in …………

Ⓐ 1^{st} quadrant Ⓑ 2^{nd} quadrant

Ⓒ 3^{rd} quadrant Ⓓ 4^{th} quadrant

(84) A point both of whose coordinates are negative will lie in …………

Ⓐ 1^{st} quadrant Ⓑ 2^{nd} quadrant

Ⓒ 3^{rd} quadrant Ⓓ 4^{th} quadrant

(85) If the x-coordinate of a point is zero, then this point always lies ....

Ⓐ in 1st quadrant Ⓑ in 2nd quadrant

Ⓒ on x-axis Ⓓ on y-axis

(86) If the y-coordinate of a point is zero, then this point always lies ....

Ⓐ in 1st quadrant Ⓑ in 2nd quadrant

Ⓒ on x-axis Ⓓ on y-axis

(87) Point (0 , -7) lies ....

Ⓐ on the x-axis Ⓑ in the second quadrant

Ⓒ on the y-axis Ⓓ in the fourth quadrant

(88) The point .... lies on the x-axis.

Ⓐ (0 , 5) Ⓑ (- 1, 3) Ⓒ (7 , 0) Ⓓ (-2 , 5)

(89) The point .... lies on the y-axis.

Ⓐ (0 , 5) Ⓑ (- 1, 3) Ⓒ (7 , 0) Ⓓ (-2 , 5)

(90) Which of the following points lies on the y-axis?

Ⓐ (-1 , 0) Ⓑ (0 , -1) Ⓒ (3 , 3) Ⓓ (5 , 0)

(91) The point W is located 4 spaces to the right and 2 spaces up from the origin. What ordered pair represents the point W?

Ⓐ (4 , 0) Ⓑ (2 , 2) Ⓒ (4 , 2) Ⓓ (4 , 6)

(92) If P (5 , 1) , Q (8 , 0) , R (0 , 4) , S (0 , 5) and O (0 , 0) are plotted on the coordinate plane, then the points on the x- axis is/are ....

Ⓐ P and R Ⓑ R and S Ⓒ only Q Ⓓ Q and O

(93) Which of the points If P (0 , 3) , Q (1 , 0) , R (0 , -1) , S (-1 , 0) and O (1 , 2) are plotted on the coordinate plane, then the points on the x- axis is/are ....

Ⓐ P and R Ⓑ Q and S Ⓒ P, R, and T Ⓓ Q, S and T

(94) Which is true of all points in the first quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.
Ⓑ negative x-coordinate, negative y-coordinate.
Ⓒ negative x-coordinate, positive y-coordinate.
Ⓓ positive x-coordinate, negative y-coordinate.

(95) Which is true of all points in the second quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.
Ⓑ negative x-coordinate, negative y-coordinate.
Ⓒ negative x-coordinate, positive y-coordinate.
Ⓓ positive x-coordinate, negative y-coordinate.

(96) Which is true of all points in the third quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.
Ⓑ negative x-coordinate, negative y-coordinate.
Ⓒ negative x-coordinate, positive y-coordinate.
Ⓓ positive x-coordinate, negative y-coordinate.

(97) Which is true of all points in the fourth quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.
Ⓑ negative x-coordinate, negative y-coordinate.
Ⓒ negative x-coordinate, positive y-coordinate.
Ⓓ positive x-coordinate, negative y-coordinate.

(98) The image of the point (x , y) by reflection across the x-axis …………

Ⓐ (x , y) Ⓑ (-x , y) Ⓒ (x , -y) Ⓓ (-x , -y)

(99) The image of the point (-x , y) by reflection across the x-axis …………

Ⓐ (x , y) Ⓑ (-x , y) Ⓒ (x , -y) Ⓓ (-x , -y)

(100) The image of the point (2 , -5) by reflection across the x-axis is the point …………

Ⓐ (2 , -5) Ⓑ (-2 , 5) Ⓒ (2 , 5) Ⓓ (-2 , -5)

(101) The image of the point (2 , -5) by reflection across the y-axis is the point …………

Ⓐ (2 , -5) Ⓑ (-2 , 5) Ⓒ (2 , 5) Ⓓ (-2 , -5)

(102) The image of the point (4 , 0) by reflection across the y-axis is the point …………

Ⓐ (0 , 4) Ⓑ (0 , -4) Ⓒ (4 , 0) Ⓓ (-4 , 0)

2 complete

(1) 25 L.E. per 5kg, then the price of each kg = ………… L.E.

(2) If Ahmed spends 180 L.E in 3 days, then he spends ……… L.E per day.

(3) 10 L.E. for each kg, then ………… Kg per L.E.

(4) 5000 km = ………… m.

(5) 12.7 cm = ………… m.

(6) 3.5 kg = ………… gm.

(7) 1250 gm = ………… Kg.

(8) 2.3 L = ………… mL.

(9) 1 hour = ………… Seconds.

(10) 200 m × $\frac{\dots\dots}{\dots\dots}$ = 0.2 km.

(11) 15 km per hour = ………… km per min.

(12) 25 km per hour = ………… m per hour.

(13) 3000 m per minute = ………… Km per hour

(14) The conversion factor of converting from liter to milliliter is $\frac{\dots\dots\dots}{\dots\dots\dots}$

(15) The conversion factor of converting from hr. to sec is $\frac{\dots\dots\dots}{\dots\dots\dots}$

(16) 25 % = ………… (as a fraction)

(17) 25 % = ………… (as a decimal)

(18) 50 % = ………… (as a fraction)

(19) 50 % = ………… (as a decimal)

(20) 75 % = ………… (as a fraction)

(21) 75 % = ………… (as a decimal)

(22) 100 % = …………

(23) 8% = ………… (as a fraction)

(24) $\frac{1}{4}$ = ………… %

(25) $\frac{1}{2}$ = ………… %

(26) $\frac{3}{4}$ = ………… %

(27) 1 = ………… %

(28) $\frac{5}{20}$ = ………… %

(29) $1\frac{3}{4}$ = ………… %

(30) $\frac{8}{20}$ = ………… %

(31) 2.15 = ………… %

(32) 0.6 = ………… %

(33) 25% + 50% = …………

(34) 30% + 40% + ………… = 1

(35) 1 – (25% + 50%) = ………… %

(36) 15% - 0.15 = …………

(37) 5 % of 200 = …………

(38) 45% of 200 = …………

(39) If 25% of a number of = 120, then this number = …………

(40) 10 % of ………… = 25

(41) ………… % of 50 = 20

(42) 12% of 400 m = ………… cm.

(43) $6\frac{1}{4}$ % of 400 kg = ………… Kg.

(44) If $\frac{x}{9}$ = 15%, then x = …………

(45) If $\frac{x}{4}$ = 25%, then x = …………

(46) If $\frac{x+6}{20}$ = 50%, then x = …………

(47) In the point (1 , -6), the x-coordinate is …………

(48) In the point (1 , -6), the y-coordinate is …………

(49) In the origin point the x-coordinate is …………

(50) In the origin point the y-coordinate is …………

(51) The coordinate plane is separated into………… quadrants.

(52) The point (-2 , 4) lies in ………… quadrant.

(53) The point (4 , 4) lies in ………… quadrant.

(54) The point (3 , - 4) lies in ………… quadrant.

(55) The point (-9 , -2) lies in ………… quadrant.

(56) A point both of whose coordinates are positive will lie in ………… quadrant.

(57) A point both of whose coordinates are negative will lie in ………… quadrant.

(58) The x-coordinate of any point that lies on the y-axis is …………

(59) The y-coordinate of any point that lies on the x-axis is …………

(60) If the x-coordinate of a point is zero, then this point always lies on …………

(61) If the y-coordinate of a point is zero, then this point always lies on …………

(62) Point C (0 , 5) lies on ………… -axis.

(63) Point C (-6 , 0) lies on ………… -axis.

(64) The point C (a , 5) lies on the y-axis, then a = …………

(65) The point C (-6 , b) lies on the x-axis, then b = …………

(66) The image of the point (x , y) by reflection across the x-axis …………

(67) The image of the point (x , y) by reflection across the y-axis …………

(68) The image of the point (-2 , -3) by reflection across the x-axis is the point ....

(69) The point (4 , 7) by reflection across the x-axis is the point.......... .

(70) The image of the point (1 , -5) by reflection across the y-axis is the point ....

(71) The image of the point (4 , 0) by reflection across the y-axis is the point ....

(72) The image of the point (0 , -1) by reflection on the y-axis is ....

(73) The image of the point (3 , -1) by reflection on .... is (-3 , -1).

(74) The image of the point (4 , 3) by reflection on .... is (4 , -3).

3 Answer the following questions.

1) **The speed of car is 2000 m per min. convert its speed to km per hr.**

....

....

2) **Ahmed answered 100% of the problems in math test correctly. If the test has 20 problems. How many problems that Wael answered correctly?**

....

....

3) **Rania has 60 L.E. She spent $\frac{3}{5}$ of them. What is the percentage of the money she spent?**

....

....

4) One most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that?

....

....

5) If the price of 2 kg of cheese is 400 L.E.
Hom much would pay for 3 kg of cheese.

....

....

6) The height of the building is 12 meters. What is the height in centimeter?

....

....

7) If the capacity of bottle of juice is 250 mL. Find the capacity in liters.

....

....

8) The price of a T-shirt is 240 L.E. if the discount is 20%
What is its price after discount?

....

....

9) In the math exam, Youssef got 18 marks of 20 marks.
Find the percentage of the marks he got.

....

....

10) Youssef bought a car for 60,000 pounds, he paid 30% of its price.
How much money did he pay?

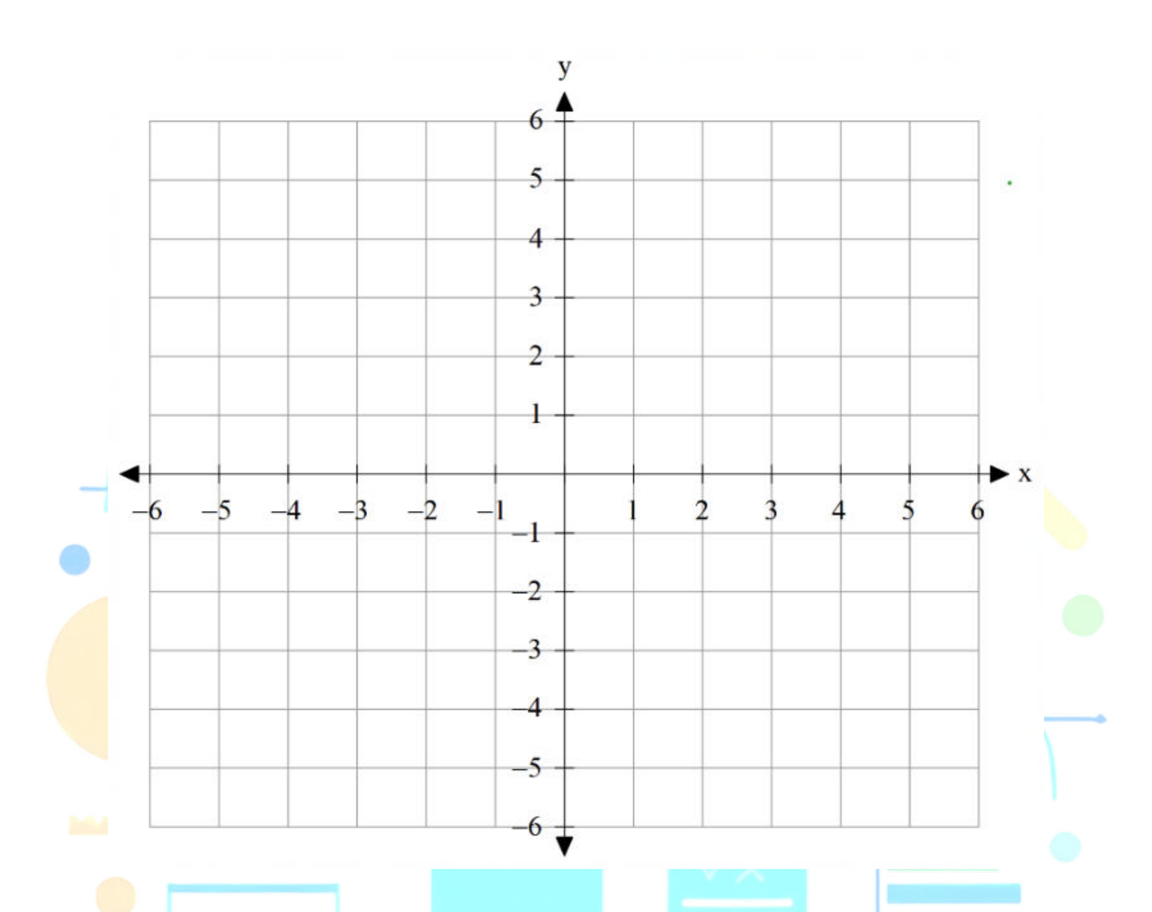
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....

11) By using the opposite coordinate plane:

a) Plot each of the following points on the coordinate plane.

A (-2 , -5) , B (4 , 6) , C (-5 , 0) , D (0 , 4)



The point A lies in ………… quadrant.

The point B lies in ………… quadrant.

The point C lies on …………

The point D lies on …………

b) Reflect each point in the y-axis.

The image of the point A: …………

The image of the point B: …………

The image of the point C: …………

The image of the point D: …………

1 Choose the correct answer.

(1) Which of the following is a unit rate?

Ⓐ 20 L.E per 2 kg. Ⓑ 105 km per 3 hours.

Ⓒ 3 liters per one bottle. Ⓓ 8 spoons of sugar for 4 cups of tea.

(2) Which of the following is not unit rate?

Ⓐ 140 L.E weekly. Ⓑ 90 km per 60 minutes.

Ⓒ 25 L.E. for each kg. Ⓓ $\frac{1}{2}$ kg of flour per a cake.

(3) 30 L.E. for 5 kg, then the cost of 30 kg is ………… L.E.

Ⓐ 5 Ⓑ 30 Ⓒ 90 Ⓓ 180

(4) By using the opposite ratio table, the unit rate is ………… kg per L.E.

Kg	1	5
L.E	……	30

Ⓐ 5 Ⓑ $\frac{1}{5}$ Ⓒ 6 Ⓓ $\frac{1}{6}$

(5) The missing numbers in the opposite ratio table are …………

Kg	1	2	3	4
L.E	……	……	……	200

Ⓐ 40,80,120 Ⓑ 50,100,150

Ⓒ 45,90,135 Ⓓ 60,120,180

(6) By using the opposite double number line, the unit rate is …………

0 — 120 Kg

0 — 4 Days

Ⓐ 40 kg per day. Ⓑ 60 kg per 2 days.

Ⓒ 30 kg per day. Ⓓ 100 kg per 3 days.

(7) 150 km per 3 hr. ………… km per hr.

Ⓐ 450 Ⓑ 200 Ⓒ 250 Ⓓ 50

(8) Which of the following is a conversion factor?

Ⓐ $\frac{3\text{ km}}{1\text{ hr}}$ Ⓑ $\frac{60\text{ min}}{1\text{ sec}}$ Ⓒ $\frac{7\text{ days}}{1\text{ week}}$ Ⓓ $\frac{1\text{ km}}{1000\text{ cm}}$

(9) Which of the following is a conversion factor?

Ⓐ 100 m = 1 km Ⓑ $\frac{20 \text{ cm}}{5 \text{ m}}$ Ⓒ $\frac{1 \text{ m}}{100 \text{ cm}}$ Ⓓ $\frac{3 \text{ m}}{10 \text{ m}}$

(10) Which of the following is NOT a conversion factor?

Ⓐ 1hr = 3600 sec Ⓑ 12 month : 1 year.
Ⓒ 1000 mm = 1 litre. Ⓓ $\frac{1 \text{ min}}{60 \text{ sec}}$

(11) $\frac{1 \text{ km}}{\dots\dots}$ is a conversion factor?

Ⓐ 1 hr. Ⓑ 1000 m. Ⓒ 100 m. Ⓓ 10000 mm.

(12) $\frac{1 \text{ hr}}{\dots\dots}$ is a conversion factor?

Ⓐ 60 min. Ⓑ 1 sec. Ⓒ 1 min. Ⓓ 60 sec.

(13) $\frac{\dots\dots\dots}{3600 \text{ sec}}$ is a conversion factor.

Ⓐ 1 min Ⓑ 1 sec Ⓒ 1 hr Ⓓ 60 min

(14) $\frac{60 \text{ km}}{1 \text{ hr}} \times \frac{\dots\dots\dots}{\dots\dots\dots} = \frac{60000 \text{ m}}{1 \text{ hr}}$

Ⓐ $\frac{1 \text{ km}}{1000 \text{ m}}$ Ⓑ $\frac{1000 \text{ km}}{1 \text{ m}}$ Ⓒ $\frac{1 \text{ m}}{1000 \text{ km}}$ Ⓓ $\frac{1000 \text{ m}}{1 \text{ km}}$

(15) $3.6 \text{ L} \times \frac{\dots\dots\dots}{\dots\dots\dots} = 3600 \text{ ml}$

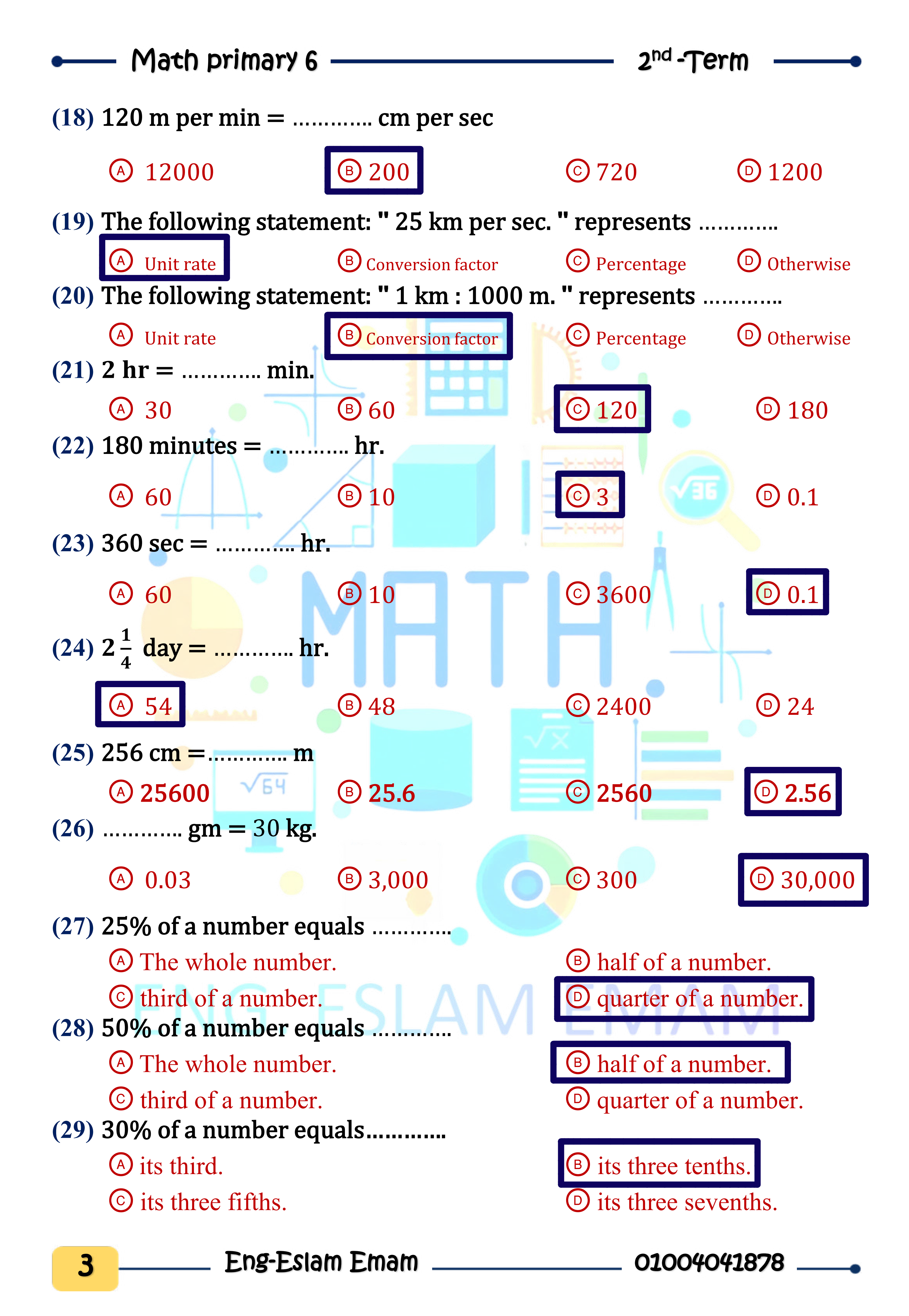
Ⓐ $\frac{1000 \text{ L}}{1 \text{ mL}}$ Ⓑ $\frac{100 \text{ mL}}{1 \text{ L}}$ Ⓒ $\frac{1000 \text{ mL}}{1 \text{L}}$ Ⓓ $\frac{1 \text{ L}}{1000 \text{ mL}}$

(16) The conversion factor to convert the speed from m per min to km per hr. is …………

Ⓐ $\frac{60 \text{ min}}{1 \text{ hr}}$ Ⓑ $\frac{1 \text{ km}}{1000 \text{ m}}$
Ⓒ $\frac{1 \text{ hr}}{60 \text{ min}} \times \frac{1 \text{ km}}{1000 \text{ m}}$ Ⓓ $\frac{1 \text{ km}}{1000 \text{ m}} \times \frac{60 \text{ min}}{1 \text{ hr}}$

(17) Which of the following is the best buy?

Ⓐ 25 L.E. for 5 kg. Ⓑ 6 kg for 36 L.E.
Ⓒ $\frac{1}{3}$ kg per L.E. Ⓓ 4 L.E. per kg.



(18) 120 m per min = ………… cm per sec

Ⓐ 12000 Ⓑ 200 Ⓒ 720 Ⓓ 1200

(19) The following statement: " 25 km per sec. " represents …………

Ⓐ Unit rate Ⓑ Conversion factor Ⓒ Percentage Ⓓ Otherwise

(20) The following statement: " 1 km : 1000 m. " represents …………

Ⓐ Unit rate Ⓑ Conversion factor Ⓒ Percentage Ⓓ Otherwise

(21) 2 hr = ………… min.

Ⓐ 30 Ⓑ 60 Ⓒ 120 Ⓓ 180

(22) 180 minutes = ………… hr.

Ⓐ 60 Ⓑ 10 Ⓒ 3 Ⓓ 0.1

(23) 360 sec = ………… hr.

Ⓐ 60 Ⓑ 10 Ⓒ 3600 Ⓓ 0.1

(24) $2\frac{1}{4}$ day = ………… hr.

Ⓐ 54 Ⓑ 48 Ⓒ 2400 Ⓓ 24

(25) 256 cm =………… m

Ⓐ 25600 Ⓑ 25.6 Ⓒ 2560 Ⓓ 2.56

(26) ………… gm = 30 kg.

Ⓐ 0.03 Ⓑ 3,000 Ⓒ 300 Ⓓ 30,000

(27) 25% of a number equals …………

Ⓐ The whole number. Ⓑ half of a number.

Ⓒ third of a number. Ⓓ quarter of a number.

(28) 50% of a number equals …………

Ⓐ The whole number. Ⓑ half of a number.

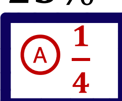
Ⓒ third of a number. Ⓓ quarter of a number.

(29) 30% of a number equals…………

Ⓐ its third. Ⓑ its three tenths.

Ⓒ its three fifths. Ⓓ its three sevenths.

(30) $25\% = \cdots$



Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(31) $50\% = \cdots$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(32) $75\% = \cdots$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(33) $100\% = \cdots$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{3}{4}$ Ⓓ 1

(34) $\frac{1}{4} = \cdots \%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(35) $\frac{1}{2} = \cdots \%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(36) $\frac{2}{4} = \cdots \%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(37) $\frac{3}{4} = \cdots \%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(38) $\frac{4}{4} = \cdots \%$

Ⓐ 25 Ⓑ 50 Ⓒ 75 Ⓓ 100

(39) $1\frac{3}{4} = \cdots \%$

Ⓐ 25 Ⓑ 75 Ⓒ 125 Ⓓ 175

(40) $1\frac{1}{2} = \cdots \%$

Ⓐ 5 Ⓑ 150 Ⓒ $1\frac{1}{2}$ Ⓓ 1500

(41) $\frac{8}{20} = \cdots \%$

Ⓐ 40 Ⓑ 45 Ⓒ 60 Ⓓ 90

(42) $\frac{2}{8} = \cdots \%$

Ⓐ 35 Ⓑ 45 Ⓒ 12.5 **Ⓓ 25**

(43) $2.15 = \cdots \%$

Ⓐ 2.5 Ⓑ 2.15 **Ⓒ 215** Ⓓ 0.215

(44) 3 : 12 = ... %

Ⓐ 3 Ⓑ 12 **Ⓒ 25** Ⓓ 36

(45) 30% + 40% = ... %

Ⓐ 70 Ⓑ 7 Ⓒ 0.7 Ⓓ 0.07

(46) 30% + 40% = ...

Ⓐ 70 Ⓑ 7 **Ⓒ 0.7** Ⓓ 0.07

(47) 24% ÷ 3% = ...

Ⓐ 6 Ⓑ 7 **Ⓒ 8** Ⓓ 8%

(48) 1 - 25% = ...

Ⓐ $\frac{3}{4}$ Ⓑ $\frac{1}{4}$ Ⓒ $\frac{1}{8}$ Ⓓ $\frac{3}{8}$

(49) 1 - 75% = ...

Ⓐ 70% **Ⓑ 0.25** Ⓒ 25 Ⓓ 2.5

(50) 1 - 1% = ... %

Ⓐ 0 Ⓑ 2 **Ⓒ 99** Ⓓ 1

(51) The percentage of 4 squares of 400 squares is .... %

Ⓐ 1 Ⓑ 0.1 Ⓒ 0.01 Ⓓ 4

(52) Mr. Eslam ate 25% of a pizza, so he ate .... half the pizza.

Ⓐ exactly. Ⓑ more than. **Ⓒ less than.**

(53) Mr. Eslam ate 50% of a pizza, so he ate .... half the pizza.

Ⓐ exactly. Ⓑ more than. Ⓒ less than

(54) Mr. Eslam ate 75% of a pizza, so he ate .... half the pizza.

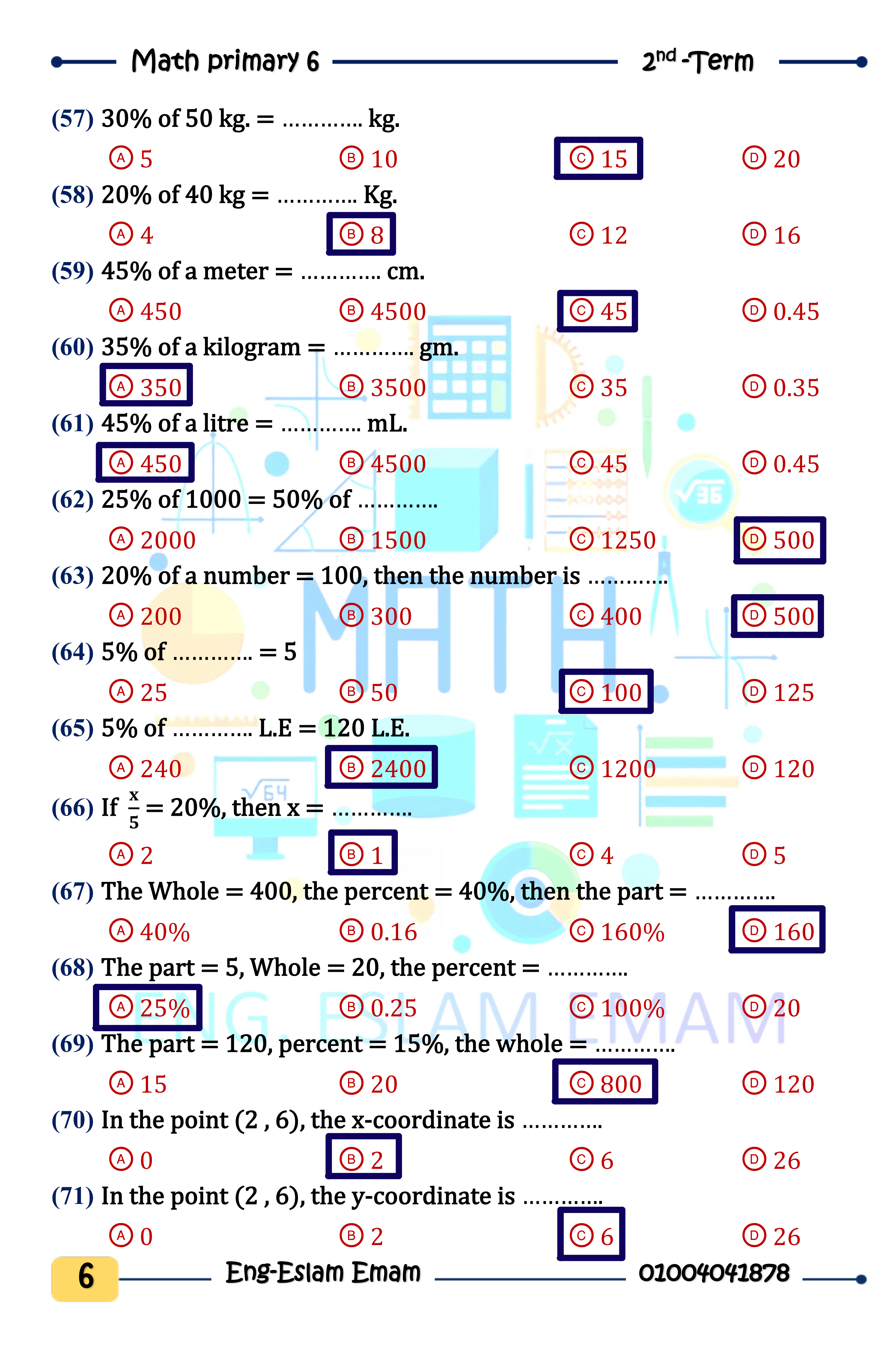
Ⓐ exactly. **Ⓑ more than.** Ⓒ less than

(55) If the percent of boys in a school is 62%, then the percent of girls is......%

Ⓐ 62 Ⓑ 48 Ⓒ 42 **Ⓓ 38**

(56) A class has 24 students, 50% of them succeded in the math exam, then the number of students succeded in the mathematics exam is.............

Ⓐ 24 Ⓑ 18 **Ⓒ 12** Ⓓ 6



(57) 30% of 50 kg. = ………… kg.

Ⓐ 5 Ⓑ 10 **Ⓒ 15** Ⓓ 20

(58) 20% of 40 kg = ………… Kg.

Ⓐ 4 **Ⓑ 8** Ⓒ 12 Ⓓ 16

(59) 45% of a meter = ………… cm.

Ⓐ 450 Ⓑ 4500 **Ⓒ 45** Ⓓ 0.45

(60) 35% of a kilogram = ………… gm.

Ⓐ 350 Ⓑ 3500 Ⓒ 35 Ⓓ 0.35

(61) 45% of a litre = ………… mL.

Ⓐ 450 Ⓑ 4500 Ⓒ 45 Ⓓ 0.45

(62) 25% of 1000 = 50% of …………

Ⓐ 2000 Ⓑ 1500 Ⓒ 1250 **Ⓓ 500**

(63) 20% of a number = 100, then the number is …………

Ⓐ 200 Ⓑ 300 Ⓒ 400 **Ⓓ 500**

(64) 5% of ………… = 5

Ⓐ 25 Ⓑ 50 **Ⓒ 100** Ⓓ 125

(65) 5% of ………… L.E = 120 L.E.

Ⓐ 240 **Ⓑ 2400** Ⓒ 1200 Ⓓ 120

(66) If $\frac{x}{5}$ = 20%, then x = …………

Ⓐ 2 **Ⓑ 1** Ⓒ 4 Ⓓ 5

(67) The Whole = 400, the percent = 40%, then the part = …………

Ⓐ 40% Ⓑ 0.16 Ⓒ 160% **Ⓓ 160**

(68) The part = 5, Whole = 20, the percent = …………

Ⓐ 25% Ⓑ 0.25 Ⓒ 100% Ⓓ 20

(69) The part = 120, percent = 15%, the whole = …………

Ⓐ 15 Ⓑ 20 **Ⓒ 800** Ⓓ 120

(70) In the point (2 , 6), the x-coordinate is …………

Ⓐ 0 **Ⓑ 2** Ⓒ 6 Ⓓ 26

(71) In the point (2 , 6), the y-coordinate is …………

Ⓐ 0 Ⓑ 2 **Ⓒ 6** Ⓓ 26

(72) The coordinate plane is separated into .... quadrants.

Ⓐ 1 Ⓑ 2 Ⓒ 3 **Ⓓ 4**

(73) The point (3 , 4) lies in ....quadrant.

Ⓐ 1st Ⓑ 2nd Ⓒ 3rd Ⓓ 4th

(74) The point (-3 , 4) lies in ....quadrant.

Ⓐ 1st **Ⓑ 2nd** Ⓒ 3rd Ⓓ 4th

(75) The point (-3 , - 4) lies in ....quadrant.

Ⓐ 1st Ⓑ 2nd **Ⓒ 3rd** Ⓓ 4th

(76) The point (3 , - 4) lies in.......... quadrant.

Ⓐ 1st Ⓑ 2nd Ⓒ 3rd **Ⓓ 4th**

(77) Which of the following lies in the 1st quadrant?

Ⓐ (2 , 5) Ⓑ (2 , -5) Ⓒ (-2 , -5) Ⓓ (-2 , 5)

(78) Which of the following lies in the 2nd quadrant?

Ⓐ (2 , 5) Ⓑ (2 , -5) Ⓒ (-2 , -5) **Ⓓ (-2 , 5)**

(79) Which of the following lies in the 3rd quadrant?

Ⓐ (2 , 5) Ⓑ (2 , -5) **Ⓒ (-2 , -5)** Ⓓ (-2 , 5)

(80) Which of the following lies in the 4th quadrant?

Ⓐ (2 , 5) **Ⓑ (2 , -5)** Ⓒ (-2 , -5) Ⓓ (-2 , 5)

(81) If the point A (-2 , 3) moved 2 units to the right then 3 units downward, then A will be ....

Ⓐ (-2 , 0) Ⓑ (0 , -1) Ⓒ (1 , 1) **Ⓓ (0 , 0)**

(82) If the point (x , -3) lies in third quadrant, then the value of x is ....

Ⓐ 7 **Ⓑ – 1** Ⓒ 2 Ⓓ 5

(83) A point both of whose coordinates are positive will lie in ....

Ⓐ 1st quadrant Ⓑ 2nd quadrant

Ⓒ 3rd quadrant Ⓓ 4th quadrant

(84) A point both of whose coordinates are negative will lie in ....

Ⓐ 1st quadrant Ⓑ 2nd quadrant

Ⓒ 3rd quadrant Ⓓ 4th quadrant

(85) If the x-coordinate of a point is zero, then this point always lies ....

Ⓐ in 1^{st} quadrant
Ⓑ in 2^{nd} quadrant
Ⓒ on x-axis
Ⓓ on y-axis

(86) If the y-coordinate of a point is zero, then this point always lies ....

Ⓐ in 1^{st} quadrant
Ⓑ in 2^{nd} quadrant
Ⓒ on x-axis
Ⓓ on y-axis

(87) Point (0 , -7) lies ....

Ⓐ on the x-axis
Ⓑ in the second quadrant
Ⓒ on the y-axis
Ⓓ in the fourth quadrant

(88) The point .... lies on the x-axis.

Ⓐ (0 , 5)
Ⓑ (- 1, 3)
Ⓒ (7 , 0)
Ⓓ (-2 , 5)

(89) The point .... lies on the y-axis.

Ⓐ (0 , 5)
Ⓑ (- 1, 3)
Ⓒ (7 , 0)
Ⓓ (-2 , 5)

(90) Which of the following points lies on the y-axis?

Ⓐ (-1 , 0)
Ⓑ (0 , -1)
Ⓒ (3 , 3)
Ⓓ (5 , 0)

(91) The point W is located 4 spaces to the right and 2 spaces up from the origin. What ordered pair represents the point W?

Ⓐ (4 , 0)
Ⓑ (2 , 2)
Ⓒ (4 , 2)
Ⓓ (4 , 6)

(92) If P (5 , 1) , Q (8 , 0) , R (0 , 4) , S (0 , 5) and O (0 , 0) are plotted on the coordinate plane, then the points on the x- axis is/are ....

Ⓐ P and R
Ⓑ R and S
Ⓒ only Q
Ⓓ Q and O

(93) Which of the points If P (0 , 3) , Q (1 , 0) , R (0 , -1) , S (-1 , 0) and O (1 , 2) are plotted on the coordinate plane, then the points on the x- axis is/are ....

Ⓐ P and R
Ⓑ Q and S
Ⓒ P, R, and T
Ⓓ Q, S and T

(94) Which is true of all points in the first quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.

Ⓑ negative x-coordinate, negative y-coordinate.

Ⓒ negative x-coordinate, positive y-coordinate.

Ⓓ positive x-coordinate, negative y-coordinate.

(95) Which is true of all points in the second quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.

Ⓑ negative x-coordinate, negative y-coordinate.

Ⓒ negative x-coordinate, positive y-coordinate.

Ⓓ positive x-coordinate, negative y-coordinate.

(96) Which is true of all points in the third quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.

Ⓑ negative x-coordinate, negative y-coordinate.

Ⓒ negative x-coordinate, positive y-coordinate.

Ⓓ positive x-coordinate, negative y-coordinate.

(97) Which is true of all points in the fourth quadrant?

Ⓐ Positive x-coordinate, positive y-coordinate.

Ⓑ negative x-coordinate, negative y-coordinate.

Ⓒ negative x-coordinate, positive y-coordinate.

Ⓓ positive x-coordinate, negative y-coordinate.

(98) The image of the point (x , y) by reflection across the x-axis ………….

Ⓐ (x , y) Ⓑ (-x , y) Ⓒ (x , -y) Ⓓ (-x , -y)

(99) The image of the point (-x , y) by reflection across the x-axis ………….

Ⓐ (x , y) Ⓑ (-x , y) Ⓒ (x , -y) Ⓓ (-x , -y)

(100) The image of the point (2 , -5) by reflection across the x-axis is the point ………….

Ⓐ (2 , -5) Ⓑ (-2 , 5) Ⓒ (2 , 5) Ⓓ (-2 , -5)

(101) The image of the point (2 , -5) by reflection across the y-axis is the point ………….

Ⓐ (2 , -5) Ⓑ (-2 , 5) Ⓒ (2 , 5) Ⓓ (-2 , -5)

(102) The image of the point (4 , 0) by reflection across the y-axis is the point ………….

Ⓐ (0 , 4) Ⓑ (0 , -4) Ⓒ (4 , 0) Ⓓ (-4 , 0)

2 complete

(1) 25 L.E. per 5kg, then the price of each kg = ……5…… L.E.

(2) If Ahmed spends 180 L.E in 3 days, then he spends ..60.. L.E per day.

(3) 10 L.E. for each kg, then …$\frac{1}{10}$…… Kg per L.E.

(4) 5000 km = 5000,000 m.

(5) 12.7 cm = 0.127 m.

(6) 3.5 kg = 3500 gm.

(7) 1250 gm = 1.25 Kg.

(8) 2.3 L = 2300 mL.

(9) 1 hour = ……60…… Seconds.

(10) 200 m × $\frac{1km}{1000m}$ = 0.2 km.

(11) 15 km per hour = …$\frac{1}{4}$…… km per min.

(12) 25 km per hour = 25,000 m per hour.

(13) 3000 m per minute = 180…… Km per hour

(14) The conversion factor of converting from liter to milliliter is $\frac{1L}{1000mL}$

(15) The conversion factor of converting from hr. to sec is $\frac{1hr}{3600 sec}$

(16) 25 % = …$\frac{1}{4}$…… (as a fraction)

(17) 25 % = …0.25… (as a decimal)

(18) 50 % = …$\frac{1}{2}$…… (as a fraction)

(19) 50 % = …0.5… (as a decimal)

(20) 75 % = …$\frac{3}{4}$…… (as a fraction)

(21) 75 % = …0.75… (as a decimal)

(22) 100 % = ……1……

(23) 8% = …$\frac{2}{25}$…… (as a fraction)

(24) $\frac{1}{4}$ = ...25... %

(25) $\frac{1}{2}$ = ...50... %

(26) $\frac{3}{4}$ = ...75... %

(27) 1 = ...100... %

(28) $\frac{5}{20}$ = ...25... %

(29) $1\frac{3}{4}$ = ...175... %

(30) $\frac{8}{20}$ = ...40... %

(31) 2.15 = ...215... %

(32) 0.6 = ...60... %

(33) 25% + 50% = ...70%...

(34) 30% + 40% + ...30%... = 1

(35) 1 – (25% + 50%) = ...25... %

(36) 15% - 0.15 = ...0...

(37) 5 % of 200 = ...10...

(38) 45% of 200 = ...90...

(39) If 25% of a number of = 120, then this number = ...480...

(40) 10 % of ...250... = 25

(41) ...40... % of 50 = 20

(42) 12% of 400 m = ...4800... cm.

(43) $6\frac{1}{4}$% of 400 kg = ...25... Kg.

(44) If $\frac{x}{9}$ = 15%, then x = ...1.35...

(45) If $\frac{x}{4}$ = 25%, then x = ...1...

(46) If $\frac{x+6}{20}$ = 50%, then x = ...4...

(47) In the point (1 , -6), the x-coordinate is ....1....

(48) In the point (1 , -6), the y-coordinate is ....-6....

(49) In the origin point the x-coordinate is ....0....

(50) In the origin point the y-coordinate is ....0....

(51) The coordinate plane is separated into....4.... quadrants.

(52) The point (-2 , 4) lies in 2nd......... quadrant.

(53) The point (4 , 4) lies in 1st......... quadrant.

(54) The point (3 , - 4) lies in ..4th......... quadrant.

(55) The point (-9 , -2) lies in 3rd.......... quadrant.

(56) A point both of whose coordinates are positive
will lie in ..1st........ quadrant.

(57) A point both of whose coordinates are negative
will lie in ..3rd........ quadrant.

(58) The x-coordinate of any point that lies on the y-axis is ....0....

(59) The y-coordinate of any point that lies on the x-axis is ....0....

(60) If the x-coordinate of a point is zero,
then this point always lies on ..y-axis..

(61) If the y-coordinate of a point is zero,
then this point always lies on ..x-axis..

(62) Point C (0 , 5) lies on .....y..... -axis.

(63) Point C (-6 , 0) lies on ....x...... -axis.

(64) The point C (a , 5) lies on the y-axis, then a = ...0.......

(65) The point C (-6 , b) lies on the x-axis, then b = ..0........

(66) The image of the point (x , y) by reflection across the x-axis (x , -y)

(67) The image of the point (x , y) by reflection across the y-axis (-x , y)

(68) The image of the point (-2 , -3) by reflection across the x-axis is the point ...(-2,3)...

(69) The point (4 , 7) by reflection across the x-axis is the point...(4,-7)...

(70) The image of the point (1 , -5) by reflection across the y-axis is the point ...(-1,-5)...

(71) The image of the point (4 , 0) by reflection across the y-axis is the point ...(-4,0)...

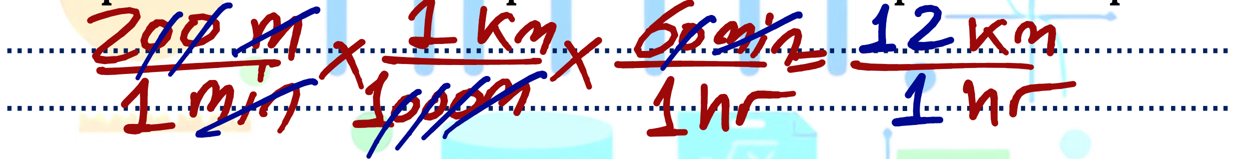
(72) The image of the point (0 , -1) by reflection on the y-axis is ...(0,-1)...

(73) The image of the point (3 , -1) by reflection on ...y-axis... is (-3 , -1).

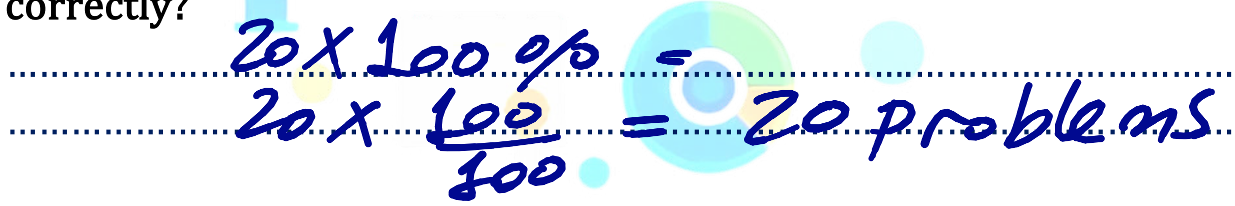
(74) The image of the point (4 , 3) by reflection on ...x-axis... is (4 , -3).

3 Answer the following questions.

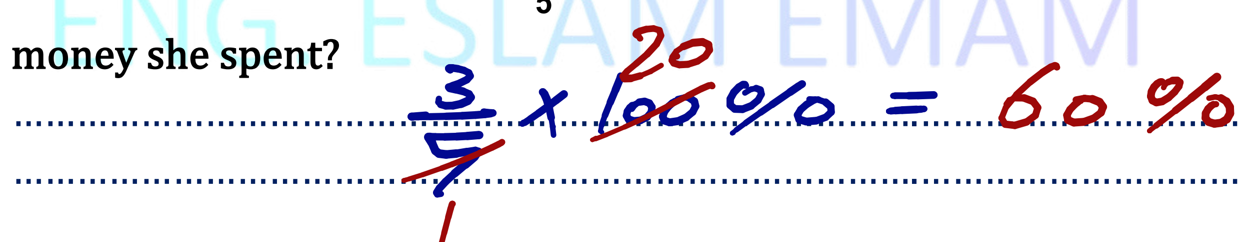
1) The speed of car is 2000 m per min. convert its speed to km per hr.



2) Ahmed answered 100% of the problems in math test correctly. If the test has 20 problems. How many problems that Wael answered correctly?



3) Rania has 60 L.E. She spent $\frac{3}{5}$ of them. What is the percentage of the money she spent?

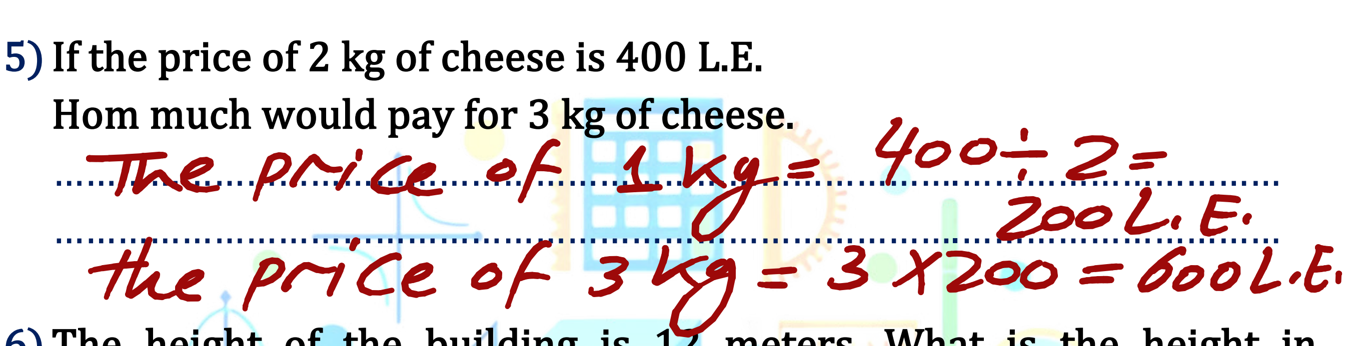


4) One most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that?

20,000 ÷ 1000 = 20 L

5) If the price of 2 kg of cheese is 400 L.E.

Hom much would pay for 3 kg of cheese.



The price of 1 kg = 400 ÷ 2 = 200 L.E.

the price of 3 kg = 3 × 200 = 600 L.E.

6) The height of the building is 12 meters. What is the height in centimeter?

12 × 100 = 1200 Cm

7) If the capacity of bottle of juice is 250 mL. Find the capacity in liters.

250 ÷ 1000 = 0,25 L

8) The price of a T-shirt is 240 L.E. if the discount is 20%

What is its price after discount?

The discount = $240 \times \frac{20}{100}$ = 48 L.E.

the price after discount = 240 − 48 = 192 L.E.

9) In the math exam, Youssef got 18 marks of 20 marks.

Find the percentage of the marks he got.

$\frac{18}{20} \times 100\%$ = 90%

10) Youssef bought a car for 60,000 pounds, he paid 30% of its price.

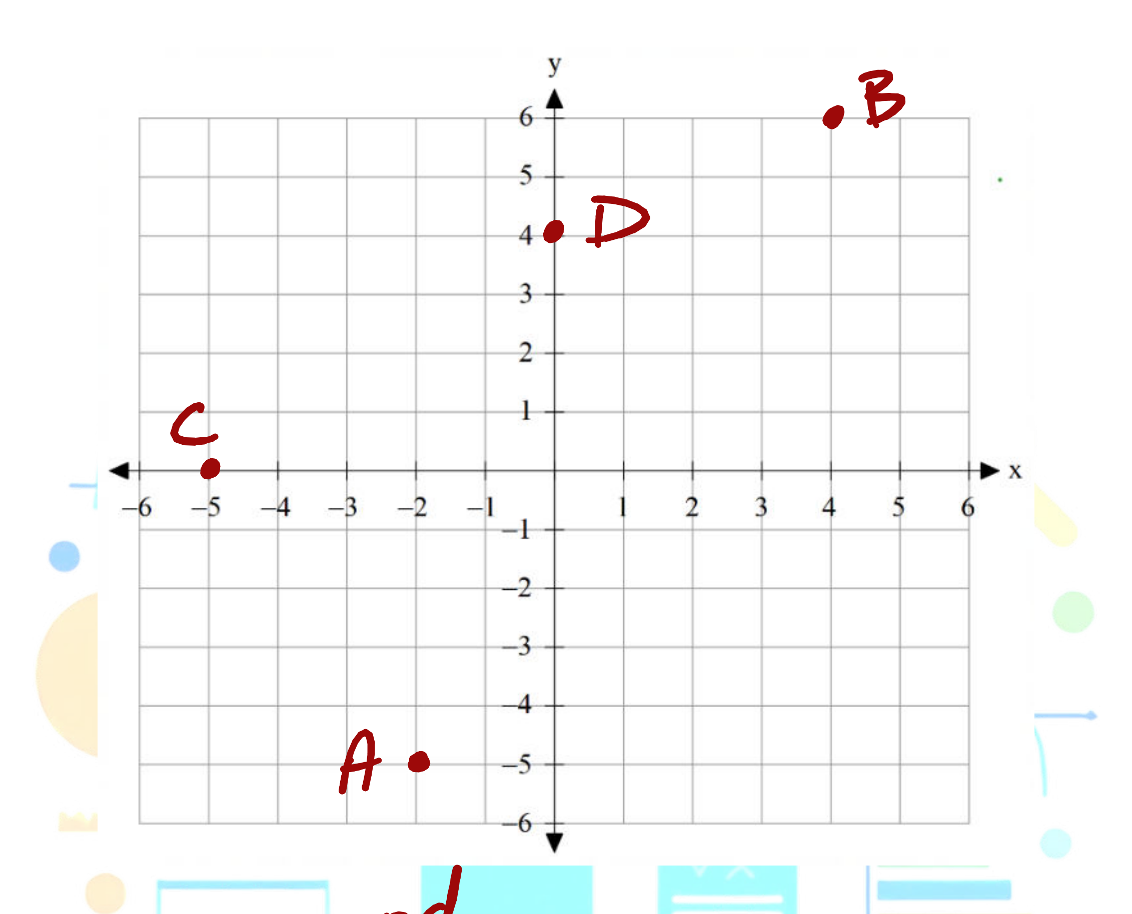
How much money did he pay?

$60,000 \times \frac{30}{100}$ = 18,000 pounds

11) By using the opposite coordinate plane:

a) <u>Plot each of the following points on the coordinate plane.</u>

A (-2 , -5) , B (4 , 6) , C (-5 , 0) , D (0 , 4)



The point A lies in ...3rd...... quadrant.

The point B lies in ...1st....... quadrant.

The point C lies on ...x-axis....

The point D lies on ...y-axis....

b) <u>Reflect each point in the y-axis.</u>

The image of the point A: ...A'(2,-5)...

The image of the point B: ...B'(-4,6)...

The image of the point C: ...C'(5,0)...

The image of the point D: ...D'(0,4)...

Choose the correct answer:

1 Which of the following is not unit rate?

- ⓐ 140 pounds weekly.
- ⓑ 25 pounds for each kilogram.
- ⓒ 90 km per 60 minutes.
- ⓓ 0.5 kg of flour per each cake.

2 Which of the following is a unit rate?

- ⓐ 20 pounds per 2 kg.
- ⓑ 2 liters per one bottle.
- ⓒ 105 km per 2 hours.
- ⓓ 8 spoons of sugar per 4 cups of tea.

3 The unit rate of the opposite tape diagram is ……………



- ⓐ 250 km per 5 hours.
- ⓑ 400 km per 4 hours.
- ⓒ 50 km per hour.
- ⓓ 100 km per 2 hours.

4 The unit rate of the opposite double number line is ………………



- ⓐ 40 kg per day.
- ⓑ 30 kg per day.
- ⓒ 60 kg per 2 days.
- ⓓ 100 kg per 3 days.

5 Which of the following is the best buy?

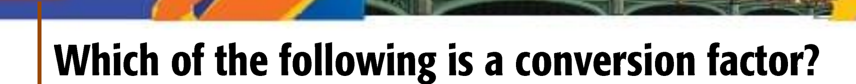
- ⓐ 25 L. E. for 5 kg.
- ⓑ 6 kg for 36 L. E.
- ⓒ 4 L. E. per kg.
- ⓓ $\frac{1}{3}$ kg per L.E.

6 A car consumes $\frac{1}{5}$ liter of petrol to cover 1 km, then it covers ………… km/L.

- ⓐ 1
- ⓑ 5
- ⓒ 10
- ⓓ 20

7 If the cost of 5 kg is 30 L. E., then the cost of 30 kg is ……………… L. E.

- ⓐ 5
- ⓑ 60
- ⓒ 30
- ⓓ 180



8 Which of the following is a conversion factor?

ⓐ $\frac{3\,km}{1\,hr}$ ⓑ $\frac{60\,\text{min}}{1\,\text{sec}}$ ⓒ $\frac{7\,days}{1\,week}$ ⓓ $\frac{1\,km}{1000\,cm}$

9 $\frac{1\,km}{\dots\dots\dots}$ is a conversion factor.

ⓐ 1 hour ⓑ 1000 m ⓒ 100 m ⓓ 1000 cm

10 3.5 L × .... = 3500 ml.

ⓐ $\frac{1000\,mL}{1\,L}$ ⓑ $\frac{1000\,L}{1\,mL}$ ⓒ $\frac{1\,mL}{1000\,L}$ ⓓ $\frac{1\,L}{1000\,mL}$

11 $2\frac{1}{3}$ day = ... hours.

ⓐ 56 ⓑ 7 ⓒ 24 ⓓ 8

12 360 sec = ... hours.

ⓐ 60 ⓑ 10 ⓒ 3600 ⓓ 0.1

13 The percentage of success in a school is 90%, then the percentage of failure is ...

ⓐ 90% ⓑ 100% ⓒ 10% ⓓ 20%

14 25% = $\frac{\dots\dots}{\dots\dots}$

ⓐ $\frac{1}{2}$ ⓑ $\frac{1}{4}$ ⓒ $\frac{1}{3}$ ⓓ $\frac{1}{5}$

15 $\frac{2}{5}$ = ... %

ⓐ 20 ⓑ 30 ⓒ 40 ⓓ 50

16 0.75 = ... %

ⓐ 25 ⓑ 50 ⓒ 75 ⓓ 100

17 3 : 6 = ... %

ⓐ 25 ⓑ 30 ⓒ 40 ⓓ 50

18 50% of a number = ...

ⓐ All the number ⓒ Half of a number
ⓑ Third of a number ⓓ Fourth of a number

19 $30\% + 40\% =$ ....

a) 70   b) 7   c) 0.7   d) 700

20 The percentage of the opposite colored part to the whole figure is ....%

a) 0.4   b) 4   c) 40   d) 60

21 $1 - 25\% =$ ....

a) $\frac{1}{4}$ b) $\frac{3}{4}$ c) $\frac{1}{8}$ d) $\frac{3}{8}$

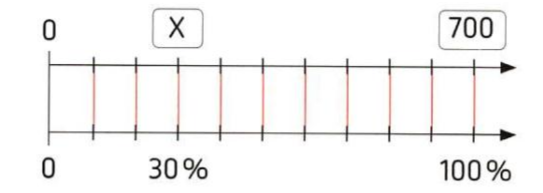
22 Half of a Pizza .... 50% of a Pizza.

a) $<$ b) $>$ c) $=$ d) $\neq$

23 30% of 30 kg = ... kg

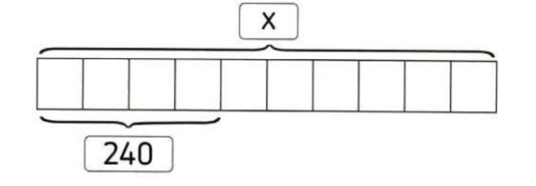
a) 3   b) 60   c) 9   d) 900

24 From the opposite double number line,
X = ...



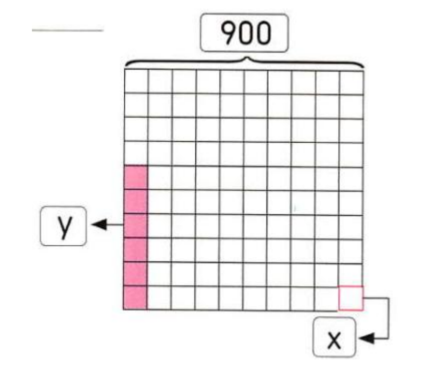
a) 70   b) 140   c) 210   d) 420

25 From the opposite tape diagram,
X = ...



a) 60   b) 240   c) 400   d) 600

26 From the opposite 10×10 grid,
X + Y = ...



a) 9   b) 54   c) 63   d) 72

Essay Problems:

1	A speed of car is 2000 m per min. convert its speed to km per hr. ………………………………………………………………………………
2	The number of children in a nursery is 60. If 50% of them are vaccinated. How many children were vaccinated? ………………………………………………………………………………
3	There are 10 boys on the playground and 50 percent of them are wearing blue shirts. How many boys are wearing blue shirts? ………………………………………………………………………………
4	Wael answered 100% of the problems in math test correctly. If the test has 20 problems. How many problems that Wael answered correctly? ………………………………………………………………………………
5	Rania has 60 L.E. She spent $\frac{3}{5}$ of them. What is the percentage of the money she spent? ………………………………………………………………………………
6	One most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that? ………………………………………………………………………………
7	If 30 teaspoons of butter are needed to make 5 loaves of bread, how many teaspoons of butter needed to make 3 loaves? ………………………………………………………………………………



Answers

Choose:

1.	C	2.	B	3.	C	4.	B
5.	D	6.	B	7.	D	8.	C
9.	B	10.	A	11.	A	12.	D
13.	C	14.	B	15.	C	16.	C
17.	D	18.	C	19.	C	20.	C
21.	B	22.	C	23.	C	24.	C
25.	D	26.	C				

Essay Problems:

1. $2000\frac{m}{\min}\times\frac{1km}{1000m}\times\frac{60\min}{1hr}=180 km/hr$.
2. $\frac{1}{2}\times 60=30$ Children.
3. $\frac{1}{2}\times 10=5$ boys.
4. 20 problems.
5. $\frac{3}{5}=\frac{60}{100}=60\%$.
6. $20{,}000 mL\times\frac{1L}{1000mL}=20L$.
7. 30 ÷ 5 = 6 teaspoon butter per loaf.

   6 × 3 = 18 teaspoon butter per 3 loaves

TEST 1

choose the correct answer

1 The unit rate from the opposite tape diagram is ... ...

ⓐ 20 days per km
ⓑ 120 km per 6 days
ⓒ 6 days per 120 km
ⓓ 20 km per day

2 5 to 10 = ... %

ⓐ 50 ⓑ 5 ⓒ 0 . 5 ⓓ 20

3 $\frac{1\text{ m}}{.....}$ is NOT a conversion factor .

ⓐ 100 cm ⓑ 1, 000 mm ⓒ 0 . 001 km ⓓ 60 min

4 if $34 \times 78 = 2,652$, then $26.52 \div 3.4 =$ ... ...

ⓐ 78 ⓑ 0 . 78 ⓒ 7 . 8 ⓓ 8 . 7

5 Martin plotted the point (4 , 7) on the coordinate plane . Which is true about the point ?

ⓐ The point is located 4 units to the right of the x − axis
ⓑ The point is located 7 units up from the x − axis
ⓒ The point is located 4 units below the x − axis
ⓓ The point is located 7 units to right of the y − axis

6 If the ratio between two numbers is 2 : 5 and the greater number is 20 , then the smaller number is ... ...

ⓐ 8 ⓑ 50 ⓒ 10 ⓓ 16

Complete the following .

① $1,500$ kg = ……………. gm

② 25 km per hour = ……………….. meters per hour

③ $35\ \% \div \frac{7}{20} =$ ……………….. %

④ The reciprocal of $\frac{1}{4}$ is …………………….

⑤ The point (4 , 3)lies in the ……………….. quadrant

- The price of a T. V. set is 16, 000 L. E. and the sales tax on the T. V. set is 12 %

  What is the price of the T. V set after adding the tax ?

  ……………………………………………………………………………………………………

  ……………………………………………………………………………………………………

- Souzan bought 2 kg of oranges for 30 pounds . How much money will she pay for 8 kg ?

  ……………………………………………………………………………………………………





TEST 2

choose the correct answer



1. **Which of the following is a unit rate ?**

   (A) 35 L.E. for 5 kg
   (B) 60 km per 60 minutes
   (C) $\frac{1}{2}$ kg of flour per cake
   (D) 140 L.E. per 2 days

2. **From the opposite figure ,**

   A, B, F, C, D, L, E

   AD : BC = ……………………….. [in the simplest form]

   (A) 5 : 3 (B) 2 : 1 (C) 4 : 3 (D) 3 : 5

3. $4.8\text{ L} \times \frac{\cdots\cdots}{\cdots\cdots} = 4{,}000\text{ mL}$

   (A) $\frac{100\text{ mL}}{1\text{ L}}$ (B) $\frac{1{,}000\text{L}}{1\text{ mL}}$ (C) $\frac{1{,}000\text{ mL}}{1\text{ L}}$ (D) $\frac{1\text{ L}}{1{,}000\text{ mL}}$

4. $\frac{3}{5} \div$ ……………… $= 1$

   (A) $\frac{5}{3}$ (B) 1 (C) $\frac{3}{5}$ (D) $1\frac{1}{3}$

5. 10 % of …………………………..kg = 12 kg

   (A) 1.2 (B) 0.12 (C) 120 (D) 1,200

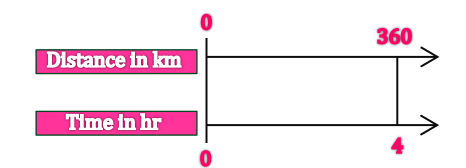
7. A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers ……………. km per liter .

   (A) 10 (B) 20 (C) 5 (D) 1

Complete the following .

1. From the opposite double number line ,

   The unit rate is ……………………………..



2. 20 % of ……………….kg = 20,000 gm
3. The first term in the ratio 25 : 49 is ………………….
4. Fifth of 45 is ………………….
5. 10 % of 50 kg = …………………… grams

- Locate the following points

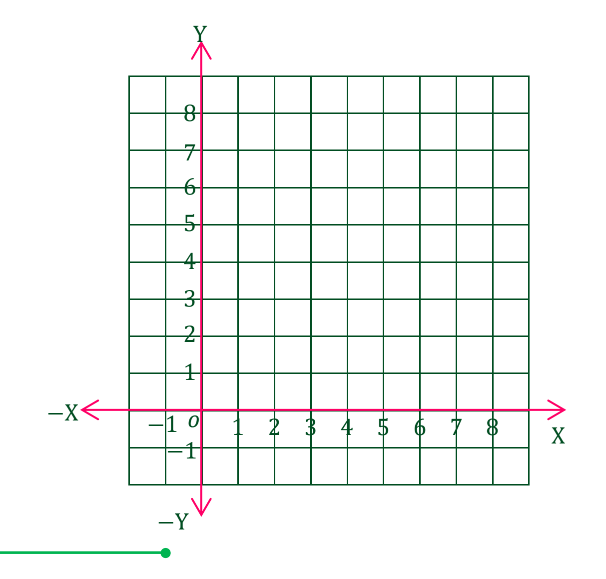
  on the coordinate plane .

  point A (3 , 7)

  point B (6 , 0)

  point C is 3 units to the left of

  point B and 4 units up



- The number of children in a nursery is 50 , if 40 % of them are vaccinated .

  What is the number of the vaccinated children in this nursery ?

  ……………………………………………………………………………………………

  ……………………………………………………………………………………………

TEST 3

choose the correct answer

1) ……………………… gm = 30 kg

Ⓐ 0.03　Ⓑ 3,000　Ⓒ 300　Ⓓ 30,000

2) Which of the following is not aconversion factor ?

Ⓐ $\frac{60 \text{ min}}{1 \text{ sec}}$　Ⓑ $\frac{1{,}000 \text{ m}}{1 \text{ km}}$　Ⓒ $\frac{1 \text{ L}}{1{,}000 \text{ mL}}$　Ⓓ $\frac{1 \text{ day}}{24 \text{ hours}}$

3) If the price of a watch is 350 L. E. , then 1 % of its price is ……………………… L. E.

Ⓐ 3.5　Ⓑ 35　Ⓒ 0.35　Ⓓ 0.035

4) If 30 L. E. for 6 kg. , then the cost of 30 kg is ……………… . L. E.

Ⓐ 6　Ⓑ 150　Ⓒ 24　Ⓓ 120

5) Vera plotted a pont on the coordinate plane 6 units to the right of the origin point and 2 units up . Which ordered pair represents the point ?

Ⓐ (2 , 6)　Ⓑ (8 , 0)　Ⓒ (6 , 2)　Ⓓ (0 , 8)

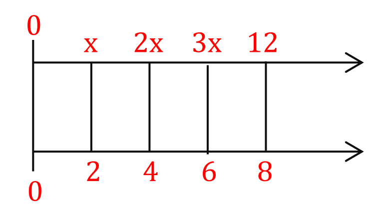
6) 42 % of 80 ☐ 80 % of 42

Ⓐ <　Ⓑ =　Ⓓ >

Complete the following .

1. **From the opposite double number line ,**

   $x =$ ……………………….



2. **If the ratio 3 : 4 is equivalent to $\frac{9}{x-1}$, then $x =$ ………………….**

3. **If point S (2 , 6) and point Q (5 , 9), then point …………… is closer to the x − axis .**

4. **The opposite table shows the ratio between boys and girls ,**

   then A = ……………………..

BOYS	GIRLS
3	4
12	A

5. **$2.5 \times 1.4 =$ ……………………**

- **The price of a mobile phone before a discount is 3,000 pounds if the discount is 10 % . What is its price after the discount ?**

……………………………………………………………………………………………………
……………………………………………………………………………………………………
……………………………………………………………………………………………………

- **Find**

(a) **6.3×0.07**

……………………………………………………………………………………………………
……………………………………………………………………………………………………

(b) **$6.3 \div 0.07$**

……………………………………………………………………………………………………
……………………………………………………………………………………………………

TEST 4

choose the correct answer

1. Which of the following points lies on the x − axis ?

Ⓐ (5 , 0) Ⓑ (0 , 3) Ⓒ (1 , 1) Ⓓ (6 , 2)

2. $\frac{4}{7} \div \frac{1}{7} =$ ……………………..

Ⓐ 4 Ⓑ $\frac{3}{7}$ Ⓒ 7 Ⓓ $\frac{7}{4}$

3. The product of any number by its reciprocal equals ……………………………………..

Ⓐ zero Ⓑ 1 Ⓒ $\frac{3}{5}$ Ⓓ $\frac{5}{3}$

4. The point ……………………… lies in the 2nd quadrant

Ⓐ (−1 , 0) Ⓑ (−2 , −3) Ⓒ (0 , −4) Ⓓ (1 , 1)

5. Moving the point (3 , 4) 3 units to the right and 5 units down , then the end point is ……………………..

Ⓐ (0 , 9) Ⓑ (6 , −1) Ⓒ (0 , −1) Ⓓ (6 , 9)

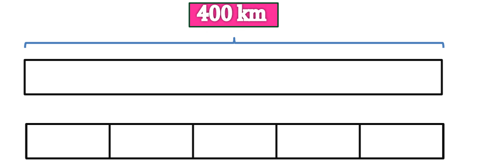
6. To find the simplest form of the ratio 12 : 18 , we divide the two terms by ……………………

Ⓐ 1 Ⓑ 2 Ⓒ 8 Ⓓ 6

Complete the following .

1. If $\frac{2}{x-1} = 50\,\%$, then $x =$ … … … … … ….
2. $1 - 25\,\% =$ … … … … … … . %
3. From the opposite tape diagram ,

   the unit rate is … … … ….



4. The point (5 , 8) is located … … … … … . units from the y − axis
5. The next ratio of 2 : 5 , 6 : 15 , 18 : 45 , … … … … … … is … … … … … …

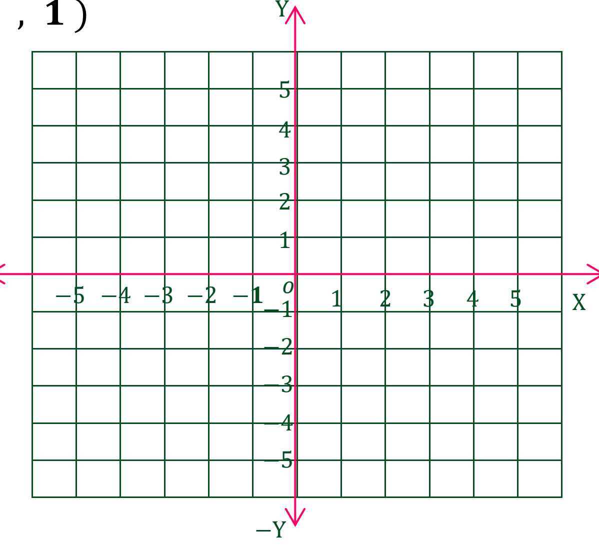
- Eman covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min ?

……………………………………………………………………………………………………

……………………………………………………………………………………………………

……………………………………………………………………………………………………

- Graph the points A (4 , 4) , B (4 , 1) and C (1 , 1) join them to draw the triangle ABC and find the images of each point by reflection across the x − axis



TEST 5

choose the correct answer

1. 60 meters per hour = ……………………. . meter (s) per min.

Ⓐ 3,600 Ⓑ 120 Ⓒ 360 Ⓓ 1

2. $\frac{3}{4} \div 2 =$ ………………………….

Ⓐ $\frac{3}{8}$ Ⓑ $\frac{6}{4}$ Ⓒ $\frac{4}{6}$ Ⓓ $\frac{3}{2}$

3. By using the opposite model ,

what is the quotient of $3 \div \frac{2}{3}$?

1			1			1		
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

Ⓐ 2 Ⓑ $\frac{3}{2}$ Ⓒ $4\frac{1}{2}$ Ⓓ $\frac{2}{3}$

4. If the price of a ball is 120 L. E. , then 10 % of its price is ……………………… . L. E.

Ⓐ 1 . 2 Ⓑ 12 Ⓒ 0 . 12 Ⓓ 0 . 012

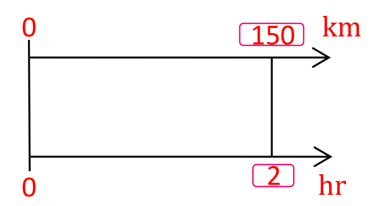
5. 6 km per hour = ……………… . . m per min

Ⓐ 6,000 Ⓑ $\frac{1}{10}$ Ⓒ 0 . 01 Ⓓ 100

6. The image of the point (2 , −4) by reflection across the x − axis is ………………………….

Ⓐ (−2 , 4) Ⓑ (−2 , −4) Ⓒ (2 , 4) Ⓓ (4 , 2)

Complete the following .



1. **From the opposite double number line ,**

   the unit rate is ……………………..

2. $2\frac{1}{4}$ **days =** …………… **hours.**

3. $40\% + 0.42 =$ ………………………. %

4. **A store offers a discount 10 % off on a shirt of price 300 L. E.**

   , then the discount = ………………. . **L. E.**

5. **The ratio between two side lengths of square is** …………………..

- **Which is the longest : 1 . 34 m or 200 cm ?**

……………………………………………………………………………………………………
……………………………………………………………………………………………………
……………………………………………………………………………………………………

- **Youssef bought a car for 70, 000 pounds , he paid 25 % of its price.**

  How much money did he pay ?

……………………………………………………………………………………………………
……………………………………………………………………………………………………
……………………………………………………………………………………………………

TEST 6

choose the correct answer

1. $5 \div \frac{2}{3} = 5 \times$ ……………………..

Ⓐ $\frac{2}{3}$ Ⓑ $\frac{3}{2}$ Ⓒ $\frac{10}{3}$ Ⓓ $2\frac{1}{3}$

2. $72.3 \div 0.01 =$ ………………………

Ⓐ 7,230 Ⓑ 0.723 Ⓒ 7.23 Ⓓ 72.3

3. Which of the following is a unit rate ?

Ⓐ 60 sec per min Ⓑ 6 kg per 3 liters
Ⓒ 2 km per 60 min Ⓓ 16 grams per a cup

4. From the opposite tape diagram ,

x = …………………………..

Ⓐ 80 Ⓑ 800
Ⓒ 60 Ⓓ 600

5. If $15.25 \div 0.05 = 305$, then $152.5 \div 0.5 =$ ………………………….

Ⓐ 30.5 Ⓑ 3.05 Ⓒ 305 Ⓓ 3.5

6. The simplest form of 12 : 24 is ………………………….

Ⓐ 1 : 4 Ⓑ 1 to 2 Ⓒ 2 : 4 Ⓓ 4 : 8

Complete the following .

① The image of the point (3 , 1) by reflection across the y − axis is the point … … … … … ….

② In the point (5 , 2), they − coordinate is … … … … … ….

③ $6.21 \div 2.7 =$ … … … … … … … …

④ $34 \times 0.25 = 3.4 \times$ … … … … … … ..

⑤ $32\ \% = 1 -$ … … … … … … %

- which is the best to buy ?

① 15 kg per 30 L. E. ② 12 . 5 L. E. per 5 kg

……………………………………………………………………………………………………

……………………………………………………………………………………………………

………………………………………………………………………….

- A speed of a car is 2, 500 cm per second . Convert its speed to km per hour .

……………………………………………………………………………………………………

……………………………………………………………………………………………………

……………………………………………………………………………………………………

- If the ratio between what sameh saved to what karim saved was 7 : 4 and the difference between them is 12 L. E. Find what each one save by using tape diagram.

… …

TEST 7

choose the correct answer

1. From the opposite table ,

   the value of unknown = ...

Whole	part	percent
Un known	120	40%

   Ⓐ 30 Ⓑ 480
   Ⓒ 300 Ⓓ 120

2. Which value NOT equivalent to 45 % ?

   Ⓐ 0 . 45 Ⓑ $\frac{9}{20}$ Ⓒ $\frac{45}{100}$ Ⓓ 4 . 5

3. If the ratio x : 3 is equivalent to 10 : 15 , then x + 2 = ...

   Ⓐ 2 Ⓑ 4 Ⓒ 6 Ⓓ 10

4. If 2 : 7 is equivalent to x : 14 , then x = ...

   Ⓐ 49 Ⓑ 4 Ⓒ 9 Ⓓ 2

Complete the following .

1. 2 . 5 hr = ... min
2. 2 . 1 × 0 . 03 = ...
3. The point $\left(-2\frac{1}{4}\ ,\ 0\right)$ lies on the ... ... −axis
4. The simplest form of the ratio 20 to 25 is ... ...

- **If the price of 4 kilograms of cheese is 800 L. E.**

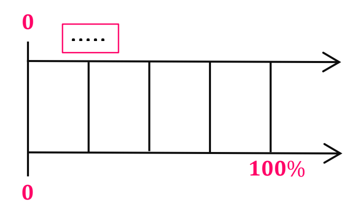
  Find the price of 3 kilograms of the same cheese .

  ... ...

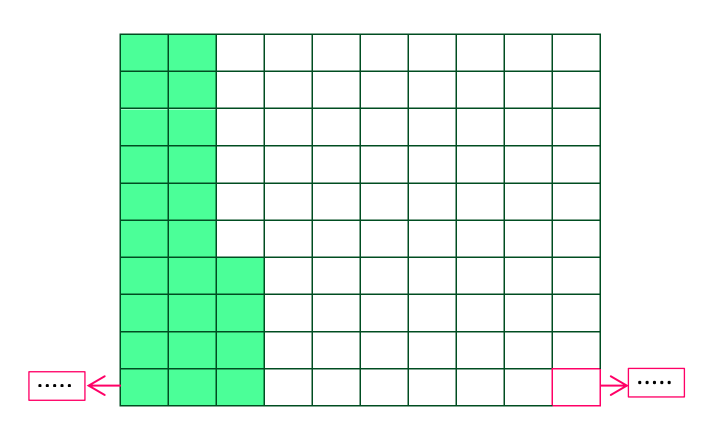
  ... ...

- **Find the value of each of the following by using the given model .**

① **25 % of 80**



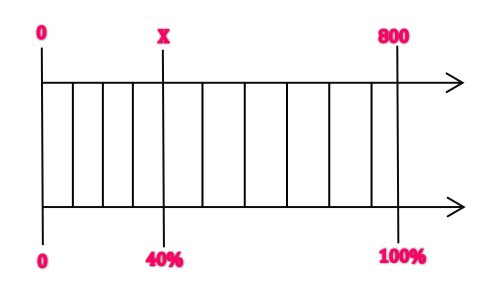
② **24 % of a number is 72**



TEST 8

choose the correct answer

1. **From the opposite doubled number line**



x = ...

Ⓐ 40 Ⓑ 400 Ⓒ 320 Ⓓ 3600

2. $\frac{1}{8}$ ☐ 8 %

Ⓐ > Ⓑ < Ⓒ =

3. **1 km per 30 hr = ... km per hr**

Ⓐ 450 Ⓑ 200 Ⓒ 250 Ⓓ 50

4. **20 cups of flour to make 5 pizza , then ... ... pizza per cup of flour**

Ⓐ 100 Ⓑ 4 Ⓒ $\frac{1}{5}$ Ⓓ $\frac{1}{4}$

5. **... ... ... gm = 20 kg**

Ⓐ 0 . 02 Ⓑ 2000 Ⓒ 200 Ⓓ 20000

6. **Which the following is NOT conversion factor ?**

Ⓐ $\frac{60 \text{ min.}}{1 \text{ sec.}}$ Ⓑ $\frac{1 \text{ L}}{1000 \text{ mL}}$ Ⓒ $\frac{1000 \text{ m}}{1 \text{ km}}$ Ⓓ $\frac{1 \text{ day}}{24 \text{ hr}}$

7. **20 % of pupils in the class = 5 pupils , then the total number of pupils in the class = ...**

Ⓐ 20 Ⓑ 50 Ⓒ 100 Ⓓ 25

Answer the following questions

- **Which is the longest .**
  2 . 35 km or 965 cm ?

  ....

  ....

  ....

- **A speed of a car is 2500 cm per sec. convert its speed to km per hr**

  ....

  ....

  ....

- **On the sale , a shop offers a discount 15 % , if the price of an article is 1600 L. E.**
  Find the price after discount .

  ....

  ....

  ....

- **Which is best buy ?**

① **15 kg per 30 L. E.** ② **12 . 5 L. E. per 5 kg**

....

....

....

choose the correct answer

1. **To convert from hr. to min. the conversion factor is ... ...**

   Ⓐ $\frac{1\text{ hr.}}{60\text{ min.}}$ Ⓑ $\frac{60\text{ hr.}}{1\text{ min.}}$ Ⓒ $\frac{60\text{ min.}}{1\text{ hr.}}$ Ⓓ $\frac{1\text{ min.}}{60\text{ hr.}}$

2. **256 cm = ... m**

   Ⓐ 25600 Ⓑ 25 . 6 Ⓒ 2560 Ⓓ 2 . 56

3. **Which of the following is a unit rate ?**

   Ⓐ 60 sec. per min Ⓑ 5 kg per 2 liters
   Ⓒ 1 km per 3 min Ⓓ 15 gm per a cup

4. $1\frac{1}{2} = \dots\dots\dots\dots\dots.\ \%$

Ⓐ 5   Ⓑ 150   Ⓒ $1\ \frac{1}{2}$ Ⓓ 1500

5. $\frac{\dots\dots\dots\dots}{3600\text{ sec.}}$ is a conversion factor

Ⓐ 1 min   Ⓑ 1 sec   Ⓒ 1 hr   Ⓓ 60 min

6. From the opposite tape diagram ,
the unit rate of the printer is … … … … …. papers per min .

Ⓐ 250   Ⓑ 50
Ⓒ 10   Ⓓ 25

50 Papers				
1	1	1	1	1
5 min				

7. 20 % of 40 kg = … … … … … … … … … … … … … kg

Ⓐ 4   Ⓑ 8   Ⓒ 12   Ⓓ 16

Complete the following

1. $1 - 25\% = \dots\dots\dots\dots\dots..$

2. 25 L. E. per 5 kg , then the price of each kg =
… … … … … … … … … … … … …. . L. E.

3. $\frac{x}{4} = 25\ \%$, then x = … … … … … …

4. A store offer a discount 20 % on a shirt of price 400 L. E.,

then its price after discount = … … … … … … …. L. E.

5. 15 km per hr = … … … …. . km per min.

6. 10 L. E. for each kg , then … … … … … … … … … … … …. kg per L. E.

7. $200\text{ m} \times \frac{\dots\dots\dots}{\dots\dots\dots} = 0.2\text{ km}$

8. 5000 km = … … … … … … … … … … … …. . m